

SAMSUNG

LCD-Monitor

Chassis LME20WS
 LME22WS

Model 206BW
 226BW

SERVICE Manual

LCD Monitor



Fashion Feature

- Magic Bright
- Magic Color
- Integrated UI applied
- Hidden Function Key
- Lustrous Appearance (Design)

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LME20WS/LME22WS Service Manual

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11 Disassembly and Reassembly

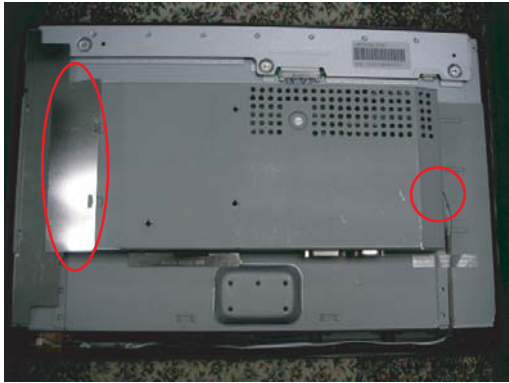
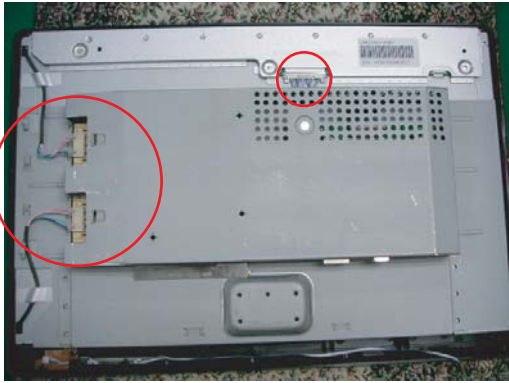


This section of the service manual describes the disassembly and reassembly procedures for the LHA20WS TFT-LCD monitors.


⚠ WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

11-1 Disassembly

- ⚠ Cautions:**
- 1. Disassembly stand on the flat desk.
 - 2. Disconnect the monitor from the power source before disassembly.

Description	Picture Description
1. Remove 3 screws from the stand and Remove stand.	
2. Remove 3 screws from the stand and Lift up back cover.	<div></div>

Description	Picture Description
<p>4. Use the jig to remove the shield lamp. (Be careful Shield.)</p> <p>5. Remove the FUNCTION Wire from PCB ASS' Y.</p>	 A photograph of the back of a white electronic device chassis. A silver, oval-shaped shield lamp is circled in red on the left side. Another red circle is on the right side, near the top edge.
<p>6. Remove the Panel Lamp wire.</p> <p>7. Remove the LVDS Wire from Panel.</p>	 A photograph of the back of the device chassis. Two red circles highlight the panel lamp wire on the left and the LVDS wire on the right, both connected to the main PCB.
<p>8. Remove 4 screws.</p>	 A close-up photograph of the back of the device chassis. Four screws are circled in red, indicating they are to be removed.
<p>9. Remove 4 screws and Lift up the Main PCB and IB Board.</p>	 A photograph of the back of the device chassis. The main PCB and IB board are circled in red, indicating they are to be lifted up.

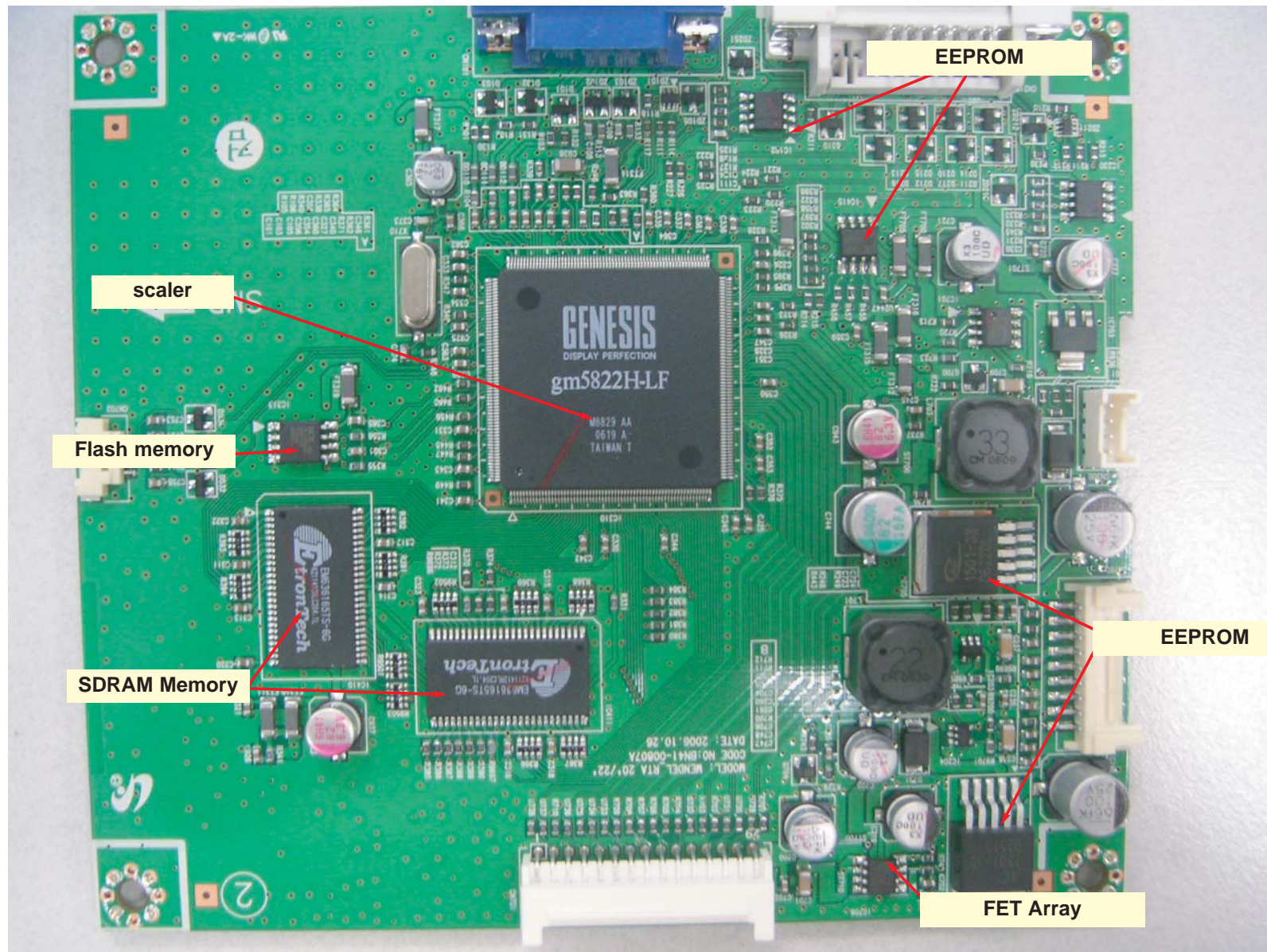
Description	Picture Description
10. Main PCB and IB Board	

11-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

12 PCB Diagram

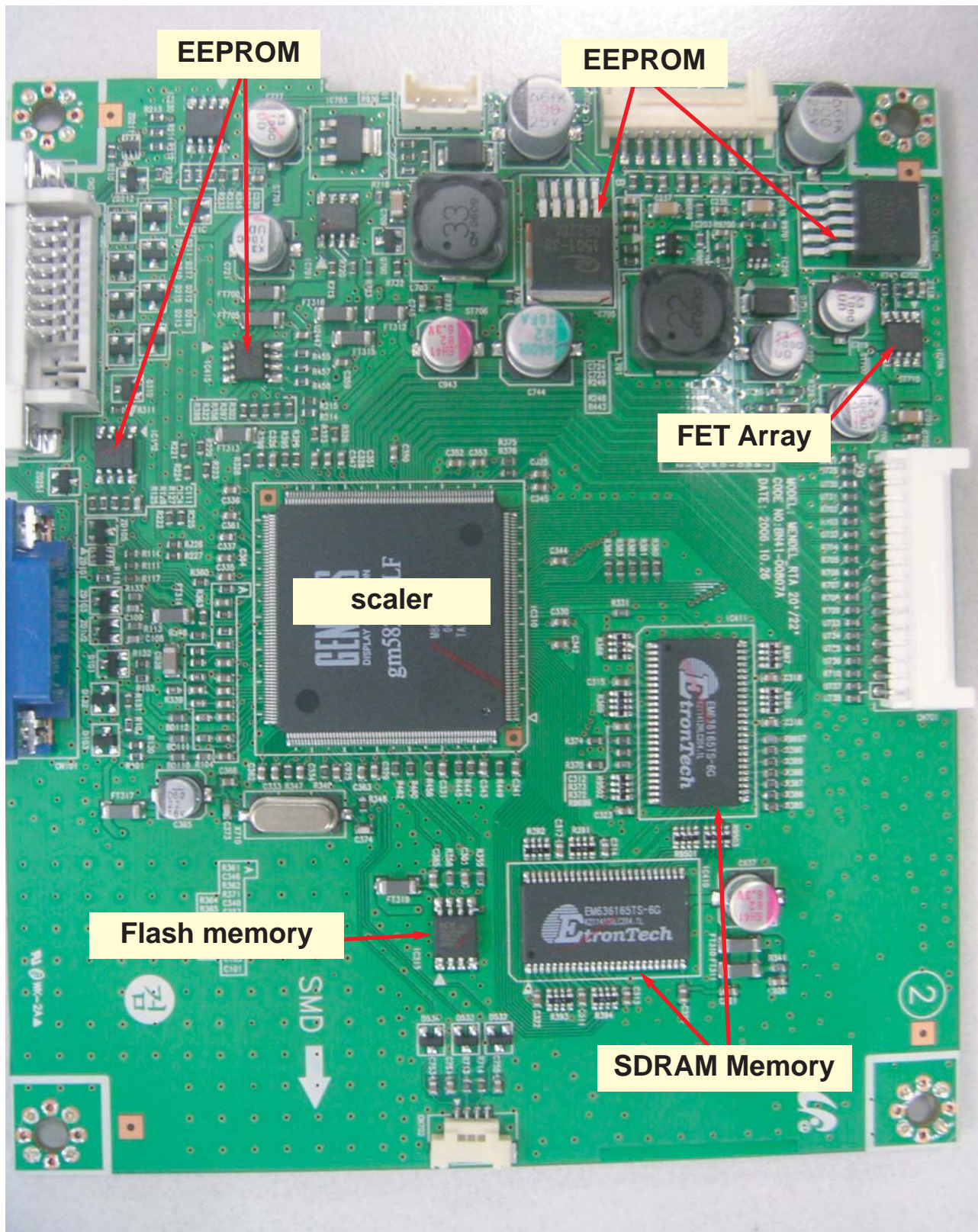
12-1 Main PCB



Memo

13 Circuit Descriptions

13-1 Block description



Memo

14 Reference Information

14-1 Technical Terms

- TFT-LCD

(Thin film Transistor Liquid Crystal Display)

ADC(Analog to Digital Converter)

This is a circuit that converts from analog signal to digital signals.

- PLL(Phase Locked Loop)

During progressing ADC, Device makes clock synchronizing HSYNC with Video clock

- Inverter

Device that supplies Power to LCD panel lamp.
This device generates about 1,500~2,000V.

- SMPS(Switching Mode Power Supply)

Switching Mode Power supply. This design technology is used to step up/down the input power by switching on/off

- FRC(Frame Rate Controller)

Technology that change image frame quantity displayed on screen for one second.
Actually TFT-LCD panel require 60 pcs of frame for one second.
so, this technology is needed to convert input image to 60 pcs regardless input frame quantity.

- Image Scaler

Technology that convert various input resolution to other resolution.(ex. 640* 480 to 1024*768)

- Auto Configuration(Auto adjustment)

This is an algorithm to adjust monitor to optimum condition by pushing one key.

- OSD(On Screen Display)

On screen display. customer can control the screen easily with this.

- Image Lock

This means "Fineness adjustment" in LCD Monitor, the features are "Fine" and "Coarse"

- FINE

"Fine" adjustment is used to adjust visibility by control phase difference.

- COARSE

This is a adjustment by tuning with Video colck and PLL clock.

- DVI (Digital Visual Interface)

This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily focused at providing a connection between a computer and its display device.

- L.V.D.S.(Low Voltage Differential Signaling)

a kind of transmission method for Digital.
It can be used from Main PBA to Panel.

- DVI (Digital Visual Interface)

This provides a high speed digital connection for visual data types that is display technology independent. this interface is primarily focused at providing a connection between a computer and its display device.

- T.M.D.S

(Transition minimized Differential Signaling)

a kind of transmission method for Digital.
It can be used from Video card to Main PBA.

- DDC(Display data channel)

It is a communication method between Host Computer and related equipment.
It can make it Plug and Play between PC and Monitor.

- EDID

Extended Display Identification Data PC can recognize the monitor information as Product data, Product name, Display mode, Serial number and Signal source, etc through DDC Line communicating with PC and Monitor.

- Dot Pitch

The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm

- Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate. Unit: Hz

Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.

- Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

- Interlace and Non-Interlace Methods

Showing the horizontal lines of the screen from the top to the bottom in order is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.

- Plug & Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.

- Resolution

The number of horizontal and vertical dots used to compose the screen image is called 'resolution'. This number shows the accuracy of the display. High resolution is good for performing multiple tasks as more image information can be shown on the screen.

Example: If the resolution is 1280 x 1024, this means the screen is composed of 1280 horizontal dots (horizontal resolution) and 1024 vertical lines (vertical resolution).

- S-Video

Short for "Super Video." S-Video allows up to 800 lines of horizontal resolution, enabling high-quality video.

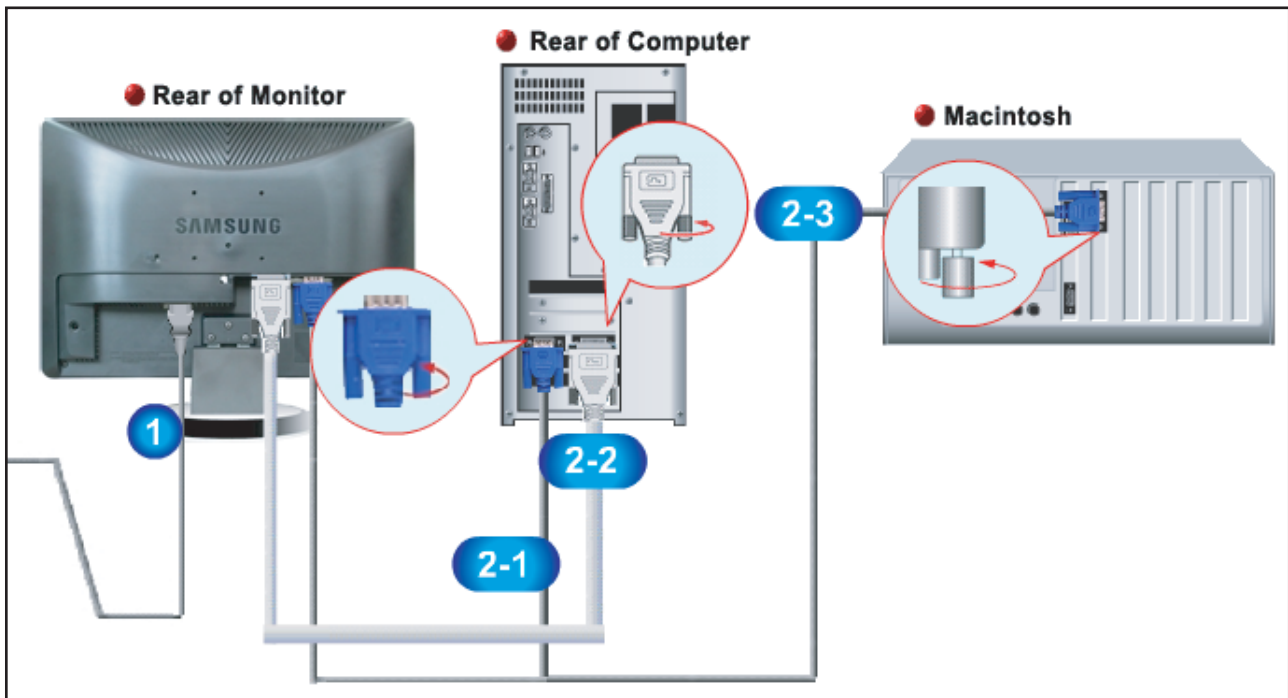
- External Device Input

External device input refers to video input from such external video devices as VCRs, camcorders and DVD players, separate from a TV broadcast.

- DVD

A type of digital disk technology that takes up only the benefits of CD and LD, to implement a high resolution/quality, which enables the user to enjoy clearer images.

- Connecting the Monitor



1. Connect the DC adapter for your monitor to the power port on the back of the monitor.
Plug the power cord for the monitor into a nearby outlet.
- 2-1. Using the D-sub (Analog) connector on the video card.
Connect the signal cable to the 15-pin, D-sub connector on the back of your monitor.



- 2-2. Using the DVI (Digital) connector on the video card.
Connect the DVI cable to the DVI port on the back of your monitor.



- 2-3. Connected to a Macintosh.
Connect the monitor to the Macintosh computer using the D-SUB connection cable.
3. Turn on your computer and monitor. If your monitor displays an image, installation is complete.

- You may get a blank screen depending on the type of video card you are using, if you connect simultaneously both the D-Sub and DVI cables to one computer.

- If you properly connect your monitor using the DVI connector but get a blank screen, check to see if the monitor status is set to analog. Press power button to have the monitor double-check the input signal source.

14-2 Pin Assignments

Pin No. \ Sync Type	15-Pin D-Sub Signal Cable Connector		
	Separate	Composite	Sync-on-green
1	Red	Red	Red
2	Green	Green	Green + H/V Sync.
3	Blue	Blue	Blue
4	GND	GND	GND
5	DDC Return (GND)	DDC Return (GND)	DDC Return (GND)
6	GND-R	GND-R	GND-R
7	GND-G	GND-G	GND-G
8	GND-B	GND-B	GND-B
9	DDC Power Input (+5V)	DDC Power Input (+5V)	DDC Power Input (+5V)
10	Self Raster	Self Raster	Self Raster
11	GND	GND	GND
12	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)	Bi-Dr Data (SDA)
13	H-Sync.	H/V-Sync.	Not Used
14	V-Sync.	Not Used	Not Used
15	DDC Clock (SCL)	DDC Clock (SCL)	DDC Clock (SCL)

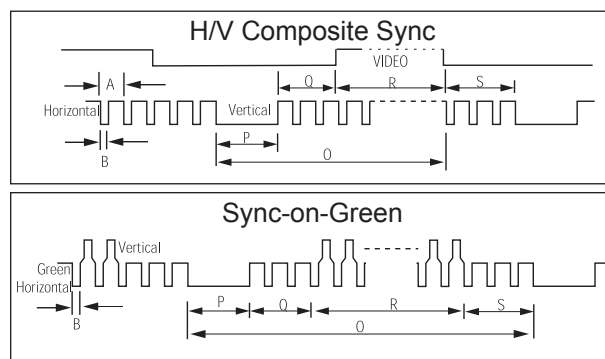
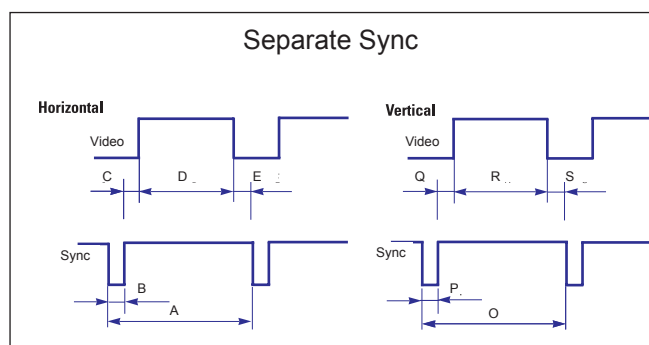
Pin No. \ Sync Type	24P DVI-D		
1	Rx2-	13	No Connection
2	Rx2+	14	+5V_M
3	GND	15	Self Raster
4	No Connection	16	+5V_M
5	No Connection	17	Rx0-
6	DDC Clock (SCL)	18	Rx0+
7	DDC Data (SDA)	19	NC
8	NC	20	No Connection
9	Rx1-	21	No Connection
10	Rx1+	22	NC
11	NC	23	RxC+
12	No Connection	24	RxC-

14-3 Timing Chart

- This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 14-1 Timing Chart

Mode Timing	IBM		VESA						
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640x480	800/60 Hz 800x600	800/75 Hz 800x600	1024/60 Hz 1024x768	1024/75 Hz 1024x768	1280/60 Hz 1280x1024	1280/75 Hz 1280x1024
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975
A μ sec	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504
B μ sec	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067
C μ sec	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837
D μ sec	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481
E μ sec	0.318	0.318	0.508	0.000	0.323	0.369	0.203	0.000	0.119
fV (Hz)	70.087	59.940	75.000	60.317	75.000	60.004	75.029	60.020	75.025
O msec	14.268	16.683	13.333	16.579	13.333	16.666	13.328	16.005	13.329
P msec	0.064	0.064	0.080	0.106	0.064	0.124	0.050	0.047	0.038
Q msec	0.858	0.794	0.427	0.607	0.448	0.600	0.466	0.594	0.475
R msec	13.155	15.761	12.800	15.840	12.800	15.880	12.795	15.630	12.804
S msec	0.191	0.064	0.027	0.0261	0.021	0.062	0.017	0.016	0.013
Clock Freq. (MHz)	28.322	26.175	31.500	40.000	49.500	75.000	78.750	108.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
V.Sync	Positive	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate



A : Line time total

B : Horizontal sync width

C : Back porch

D : Active time

E : Front porch

O : Frame time total

P : Vertical sync width

Q : Back porch

R : Active time

S : Front porch

14-4 Preset Timing Modes

- If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjust the screen as follows.

Table 1. Preset Timing

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+, -/+, -
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1280 x 1024	63.981	60.020	108.00	+/+
VESA, 1280 x 1024	79,976	75,025	135,00	+/+
VESA, 1600 x 1200	75.000	60.000	162.00	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle and the inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called Vertical Frequency or Refresh Rate. Unit: Hz

14-5 Panel Description

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	-
SEC	LT150XS-L01	BN07-00009A	SB		-
SEC	LT150XS-L01-B	BN07-00022A	SC		-
SEC	LTM150XS-L02	BN07-00005A	SD		-
SEC	LT181E2-132	BN07-00001A	SE		-
SEC	LT150XS-T01	BN07-00010A	SF		-
SEC	LTM181E3-132	BN07-00019A	SG		-
SEC	LT170E2-131	BN07-10001D	SH		-
SEC	LT181E2-131	BN07-10001E	SJ		-
SEC	LTM170E4-L01	BN07-00018A	SK		-
SEC	LTM240W1-L01	BN07-00015A	SL		-
SEC	LTM213U3-L01	BN07-00016A	SM		-
SEC	LTM150XH-L01	BN07-00026A	SN		-
SEC	LTM150XH-L03	BN07-00027A	SP		-
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		-
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		New panel with high brightness
SEC	LTM170W1-L01	BN07-00047A	SZ		Panel for TV
SEC	LTM150XH-L06	BN07-00053A	EA		Panel for TV/ High luminance for 450cd , SONY&EOS Team Panel for TV
SEC	LTM153W1-L01	BN07-00054A	EB		Use NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		Panel EOS proj. for high brightness of 17" EH-L05
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH mechanical Compatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		Panel for 15" Wide TV
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		Panel for 22" TV
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVA mode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		Color coordinates change for LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15" 9/10
SEC	LTM170W1-L01	BN07-00100A	EY		Color Coordinates change code management
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Color Coordinates Change Panel Code
SEC	LTA400W1-L01	BN07-00109A	S1		PANEL of AMLCD 40" TV
SEC	LTM153W1-L01	BN07-00110A	S2		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM220W1-L01	BN07-00114A	S6		ZPD Panel for AMLCD 22" TV
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD Panel code
SEC	LTM170WP-L01	BN07-00119A	S9		PVA Panel for NIKE
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		"Panel B-level panel code for 22" TV Panel "
SEC	LTA320W1-L01	BN07-00108A	E4		"Panel for AMLCD 32" TV"
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		"HIGHLAND 17"" LOW PANEL (Panel only for TCO03)"
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel
SEC	LTA170V1	BN07-00139A	E9		"17" Panel for Muse 4:3 VGA TV"
SEC	LTM190E1-L02	BN07-00128A	E10		"New Panel from AMLCDI, Specification : 6bit Driver IC"
SEC	LTM170EX-L01	BN07-00143A	E11		"Development new Panel from AMLCD"
SEC	LTM170E8-L01	BN07-00144A	E12		"Development new Panel from AMLCD"
SEC	LTM170E6-L04	BN07-00129B	E13		"ZPD panel for AMLCD (Panel only for TCO03)"
SEC	LTA320W1-L02	BN07-00108B	E14		"Creat B-level Panel code for AMLCD 32"" TV"
SEC	LTM190E1-L03	BN07-00151A	E15		"Development new 19"" Panel form AMLCD (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134A	E16		"AMLCD 24"" panel development"
SEC	LTM190E1-L02	BN07-00128B	E17		"New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)"
SEC	LTM190E4-L01	BN07-00145A	E18		"AMLCD 24"" new panel development"
SEC	LTM170E8-L01	BN07-00158A	E19		"ZPD code derivation"
SEC	LTM170EX-L01	BN07-00159A	E20		"ZPD code derivation"
SEC	LTM190E1-L03	BN07-00151B	E21		"Creat new panel code for AMLCD 19"" (Panel only for TCO03)"

14 Reference Infomation

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
SEC	LTA460H1-L01	BN07-00157A	E22		*creat panel code for AMLCD 46" TV "
SEC	LTM170EU-L11	BN07-00160A	E23		*creat new panel code for AMLCD 17" (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134B	E24		"24" panel ZPD code derivation"
SEC	LTM190E4-L01	BN07-00145B	E25		"AMLCD 19" ZPD Panel code derivation"
SEC	LTM240W1-L03	BN07-00134B	E26		"24" panel ZPD code derivation"
SEC	LTM150XO-L01	BN07-00164A	E27		"AMLCD 15" XO-L01 new panel development"
SEC	LTM150XO-L01	BN07-00164B	E28		"AMLCD 15" XO-L01 ZPD code derivation"
SEC	LTM170EU-L11	BN07-00160B	E29		"AMLCD 17" NEW panel code derivation"
SEC	LTA320W2-L01	BN07-00172A	SPZ		AMLCD 32" NEW panel
SEC	LTM213U4-L01	BN07-00124B	SPZ		21.3" Narrow PANEL ZPD Panel derivation
SEC	LTM170EU-L11	BN07-00189A	STH		AMLCD EU-L11 Pb free panel code derivation
SEC	LTM170EU-L11	BN07-00189B	STZ		AMLCD EU-L11 Pb free panel ZPD code derivation
SEC	LTM240W1-L04	BN07-00188A	SPH		24" A-DCC new panel development
SEC	LTM240W1-L04	BN07-00188B	SPZ		24" A-DCC panel ZPD code derivation
SEC	LTM190EX-L01	BN07-00191A	STH		AMLCD 19" TN new Panel
SEC	LTM190EX-L02	BN07-00191B	STZ		AMLCD 19" TN new Panel ZPD derivation
SEC	LTA230W1-L02	BN07-00184A	SPZ		AMLCD 23" 16:9 new Panel
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 new Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" panel with high brightness development
SEC	LTA400W2-L01	BN07-00186A	SPZ		AMLCD 40" 16:9 new Panel
SEC	LTM150XO-L01	BN07-00197A	STH		AMLCD 15" XO-L01 Pb free panel code
SEC	LTM150XO-L01	BN07-00197B	STZ		AMLCD 15" XO-L01 Pb free panel ZPD code
SEC	LTM170EU-L21	BN07-00202A	STZ		AMLCD EU-L21 ZPD new code derivation
SEC	LTA460W2-L03	BN07-00187A	SPZ		BEETOVEN 46"ZPD new panel
SEC	LTM240M1-L01	BN07-00195B	SPZ		24" igh brightness panel ZPD code derivation
SEC	M170EX-L21	BN07-00206A	STZ		AMLCD LTM170EX-L21 ZPD new code derivation
SEC	LTA460H3-L01	BN07-00200A	SPZ		AMLCD 46" LED BLU panel
SEC	LTM170EU-L15	BN07-00214A	STZ		AMLCD EU-L15 TV high brightness ZPD new code derivation
SEC	LTM170E8-L21	BN07-00218A	SPZ		AMLCD LTM170E8-L21 PVA ZPD new code derivation
SEC	LTM190EX-L21	BN07-00222A	STZ		DISPLAY LCD
SEC	LTM201U1-L01	BN07-00190B	SPZ		AMLCD 20.1" Normal panel ZPD code derivation
SEC	LTM190E4-L21	BN07-00223A	SPZ		HAYDN 17" PZD code PANEL derivation
SEC	LTA570H1-L01	BN07-00196A	SPZ		AMLCD 57" new panel development
SEC	LTM150XO-L21	BN07-00229A	STZ		AMLCD 15" XO-L21 8ms panel code
SEC	LTA260W2-L11	BN07-00239A	SPZ		AMLCD 26" 16:9 7Line new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
SEC	LTM213U6-L01	BN07-00231A	SPZ		AMLCD 21.3" PVA new Panel Code
SEC	LTA320WS-LH2	BN07-00244A	SPZ		AMLCD 32" 16:9 SPVA 90% new Panel
SEC	LTA400WS-LH1	BN07-00245A	SPZ		AMLCD 40" 16:9 SPVA 90% new Panel
CPT	CLAA150XG09	BN07-00141A	PA		"CPT 15" Monitor new panel development"
CPT	CLAA170EA02	BN07-00148A	PB		"17" CPT NEW development panel"
CPT	CLAA170EA02	BN07-00148B	PC		"17" CPT ZPD panel code derivation"
CPT	CLAA150XG09	BN07-00141B	PTZ		"CPT 15" panel ZPD code derivation (GOYA-PJT)"
CPT	CLAA150XP01	BN07-00173A	PTH		CPT 15" PSWG code derivation
CPT	CLAA150XP01	BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code
CPT	CLAA170EA07	BN07-00174A	PTH		"CPT 17" PSWG panel code derivation
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type new Panel code"
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type new Panel code
CPT	CLAA170EA07Q	BN07-00220A	PTZ		CPT 17" PSWG R/T 8msec code derivation
CPT	CLAA170EA07Q	BN07-00220B	PTH		CPT 17" PSWG R/T 8msec HPD code derivation
CPT	CLAA150XP01F	BN07-00236A	PTZ		CPT 15" PSWG panel ZPD & Lead free code derivation
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		-
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		-
TOSHIBA	LTM18C161	BN07-00008A	TC		-
TOSHIBA	LTM15C443	BN07-00031A	TD		-
TOSHIBA	LTM15C458	BN07-00043A	TE		-
TOSHIBA	LTM15C458S	BN07-00077A	TF		"TSB 15" high brightness Panel"
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S (ZPD)
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		"TTL type"
HANNSTAR	HSD150MX12	BN07-00030A	NB		"TTL type"
HANNSTAR	HSD170ME13	BN07-00180A	NTH		Hannstar 17" TN new panel development
HANNSTAR	HSD170ME13	BN07-00180B	NTZ		Hannstar 17" TN new panel development ZPD code derivation
HANNSTAR	HSD190ME12	BN07-00210A	NTZ		Hannstar 19" TN new panel development
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		-
TORISAN	TM150XG-26L06	BN07-00042A	RB		-
TORISAN	TM181SX-76N01	BN07-00048A	RC		-
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD)
TORISAN	TM290WX-71N31	BN07-00063A	RE		"RS24NS (TORISAN 29" NEW PANEL)"
TORISAN	TM396WX-71N31	BN07-00064A	RF		"RS24NS (TORISAN 40" NEW PANEL)"
TORISAN	TM150XG-26L09	BN07-00073A	RG		"Panel for 15" TV"
TORISAN	TM150XG-26L10	BN07-00089A	RH		"L10(change except D/C) ZPD"
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code

Maker	VENDOR P/N	PANEL_CODE	PANEL_ABB	STICKER_CODE	Remarks
TORISAN	TM290WX-71N31	BN07-00115A	RN		*Color Coordinates change panel for TORISAN 29" TV"
TORISAN	TM396WX-71N31	BN07-00116A	RP.Q		*Color Coordinates change panel for TORISAN 40" TV"
TORISAN	TM220WX-71N31	BN07-00125A	RR		"Development TORISAN 22" TV PANEL (ZPD)"
TORISAN	TM220WX-71N31	BN07-00127A	RS		"Development TORISAN 22" TV PANEL (HPD)"
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code Derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43D1VC0CAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
HITACHI	TX80D12VC0CAB	BN07-00169A	HIZ		"Development new panel for Hitachi 32" TV (ZPD)"
HITACHI	TX54D11VC0CAB	BN07-00123B	HIZ		Hitachi 21.3" ZPD panel
IBM	ITSX94S	BN07-00017A	IA		-
UNIPAC	UM170E0	BN07-00028A	UA		Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 (Narrow & slim Design)
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		"Development for Ares 15" Hydis TV"
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		"Derivation panel HPD for Ares 15" Hydis TV "
HYUNDAI	HT17E13-100	BN07-00167A	DTH		"PINEHURST-2(IBM) PJT 17" HYDIS PANEL Derivation"
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		"PINEHURST-2(IBM) Hydis 17" ZPD code Derivation"
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel (Narrow & slim design)
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
ACER	M190EN02	BN07-00170A	AMH		"AU Monitor 19" new panel development (P19-1S)"
ACER	M190EN02	BN07-00170B	AMZ		"AU 19" ZPD code derivation (ZPD)"
ACER	M170EN06	BN07-00171A	ATH		"AU Monitor 17" New panel development "
ACER	T260XW01	BN07-00163A	AMZ		"AU 26" new panel development (NF26EO)"
ACER	A201SN01	BN07-00177A	ATZ		"AU TV panel 20.1" TN SVGA new panel development"
ACER	M170EN06	BN07-00171B	ATZ		AU Monitor 17" ZPD code derivation
ACER	T315XW01	BN07-00194A	AMZ		AU 32" new
ACER	M170EG01	BN07-00192A	ATH		AU TN PSWG type new Panel code
ACER	M170EG01	BN07-00192B	ATZ		AU TN PSWG type NEW panel code derivation
ACER	M190EN04	BN07-00203A	ATH		AU Monitor 19" ZPD new Panel code
ACER	T260XW02	BN07-00208A	AMZ		AUO 26" ZPD panel
ACER	M170EG01 V8	BN07-00221A	ATZ		AU TN PSWG type new Panel (8mssec) ZPD code derivation
ACER	T260XW02	BN07-00233A	AMZ		AUO 26" Panel new (Cosmetic spec down grade)
ACER	T315XW01	BN07-00234A	AMZ		AUO 32" Grade new (Cosmetic spec down grade)
ACER	M190EN03	BN07-00224A	AMZ		AU Monitor 19" MVA new code derivation
ACER	T315XW01	BN07-00237A	AMZ		LCD TV VE project new
ACER	T315XW01	BN07-00238A	AMZ		LCD TV VE project new
ACER	M201UN02 V3	BN07-00168A	AMZ		
CHIMEI	M170E3-L01	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIMEI 15" PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		"2003-03-11 vendor change"
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD derivation panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development
CHIMEI	M170E6-L02	BN07-00126B	CQ		"HIGHLAND 17" LOW PANEL ZPD derivation panel"
CHIMEI	M170E6-L05	BN07-00152A	CR		"CMO 17" new panel development code"
CHIMEI	M170E6-L05	BN07-00152B	CS		"CMO 17" ZPD panel code derivation"
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation
CHIMEI	M170E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)
CHIMEI	M170E5-L05	BN07-00165B	CTZ		CMO 17" ZPD panel(GOYA2-PJT)
CHIMEI	V230W1-L02	BN07-00209A	CMZ		CMO 23" development
CHIMEI	V320B1-L01	BN07-00207A	CMZ		CMO 32" development
CHIMEI	V270W1-L01	BN07-00136A	CMZ		CHI MEI 27" panel development
NEC	SVA150XG04TB	BN07-00225A	BTZ		SVA NEC 15" panel ZPD code

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2 Product Specifications

2-1 Fashion Feature

- Premium HAS application(Lift 80mm)
- Magic Rotation application(Auto pivot Delete)
- Embeded Power, Mechanical S/W application

2-2 Feature

No	Feature	Feature	Operating method
1	Auto Auto	If 206BW/226BW turns on in some resolution for the first time, it can execute Auto adjustment automatically for the high Quality	
2	Auto Power on/off	206BW/226BW can check the change of Source Automatically and change the source to the active Input	
3	Wall mount	206BW/226BW supports Wall mount (100 X 100)	
4	Gamma & Color temperature Adjust	206BW/226BW supports 3 step Adjustment for Gamma & Color temperature	
5	Magic Bright	206BW/226BW supports 7 different brightness mode (Custom, Text, Internet, Game, Sports, Movie, Dynamic Contrast)	
6	Sharpness	Adjust the Sharpness	



2-3 LME20WS Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 20-Inch viewable, 0.258 (H) x 0.258 (V) mm pixel pitch
Scanning Frequency	Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (WSXGA+ : 60Hz)
Display Colors	16.7 Million colors
Maximum Resolution	Horizontal : 1680 Pixels Vertical : 1050 Pixels
Input Signal	Analog / Digital
Input Sync Signal	Seperate H/V sync, Composite H/V, Sync-on-Green, Automatic synchroniza tion whitout external swith of sync type Level : TTL level
Maximum Pixel Clock rate	162 MHz (Analog/Display)
Active Display Horizontal/Vertical	408(H) x 306(W)
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	50W (MAX)
Dimensions	
Set (W x D x H)	476 x 65.2 x 329 mm (18.7 x 2.6 x 13 inch)
With Stand (W x D x H)	476 x 219.3 x 397 mm (18.5 x 8.6 x 15.6 inch)
SWIVEL ANGLE	0 ~ 350°
TILT ANGLE	-1 ~ 22°
Weight (Set/Package)	6.0 Kg / 7.9 Kg
Environmental Considerations	Operating Temperature : 50° F ~ 122° F (10° C ~ 50° C) Operating Humidity : 10% ~ 90% Storage temperature : -4° F ~113 ° F (-20° C ~ 45° C) Storage Humidity : 5% ~ 90%
- Designs and specifications are subject to change without prior notice.	

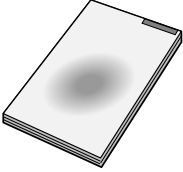
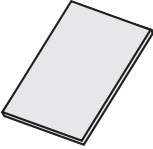
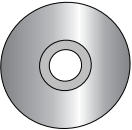


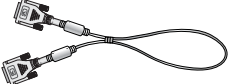
2-4 LME22WS Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 22-Inch viewable, 0.258 (H) x 0.258 (V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 80 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (WSXGA+ : 60Hz)
Display Colors	16.7 Million colors
Maximum Resolution	Horizontal : 1680 Pixels Vertical : 1050 Pixels
Input Signal	Analog / Digital
Input Sync Signal	Seperate H/V sync, Composite H/V, Sync-on-Green, Automatic synchroniza tion whitout external swith of sync type Level : TTL level
Maximum Pixel Clock rate	162 MHz (Analog/Display)
Active Display Horizontal/Vertical	408(H) x 306(W)
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz
Power Consumption	50W (MAX)
Dimensions	
Set (W x D x H)	514.6 x 63 x 353 mm (20.3 x 2.5 x 19 inch)
With Stand (W x D x H)	514.6 x 219.3 x 421.7 mm (20.3 x 8.6 x 16.6 inch)
SWIVEL ANGLE	0 ~ 350°
TILT ANGLE	-1 ~ 22°
Weight (Set/Package)	6.5 Kg / 8.5 Kg
Environmental Considerations	Operating Temperature : 50° F ~ 122° F (10° C ~ 50° C) Operating Humidity : 10% ~ 90% Storage temperature : -4° F ~ 113 ° F (-20° C ~ 45° C) Storage Humidity : 5% ~ 90%
- Designs and specifications are subject to change without prior notice.	

2-5 Spec Comparison

Model	LME20WS LME22WS	LS20BRD
Design		
Screen Size	20" (LME20WS) 22" (LME22WS)	20.1"
Brightness	300cd/m ²	300cd/m ²
Contrast	1000:1 (206BW) 700:1 (226BW)	800:1
Fast Response Time	8ms	5ms
Magic Pivot	X	X
Magic Tune	Premium	Premium
Sharpness	O	O
Magic Bright	7 steps Custom , Text, Internet, Game, Sports, Movie, Dynamic Contrast	6 steps Text, Internet, Sports, Movie, Game, Custom

2-6 Option Specification

Item	Item Name	Code.No	Remark
	Quick Setup Guide	BH68-00376L	
	Warranty Card (Not available in all locations)	BH68-00261F	
	User's Guide, Monitor Driver, MagicTune™ software	BN59-00521H	
	D-Sub(15 Pin) Cable	BN39-00244B	
	Power Cord	3903-000085	
	DVI Cable	BN39-00246F	Sold separately

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3 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change.

3-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, Windows 2000, Windows XP or Windows NT.
- MTI-2031 DDC MANAGER JIG

3-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Select english for OSD language.
2. Press the " (Enter/Source)" key for 5 seconds.

3-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department.
Install the below jig (Figure 1) and enter the data.

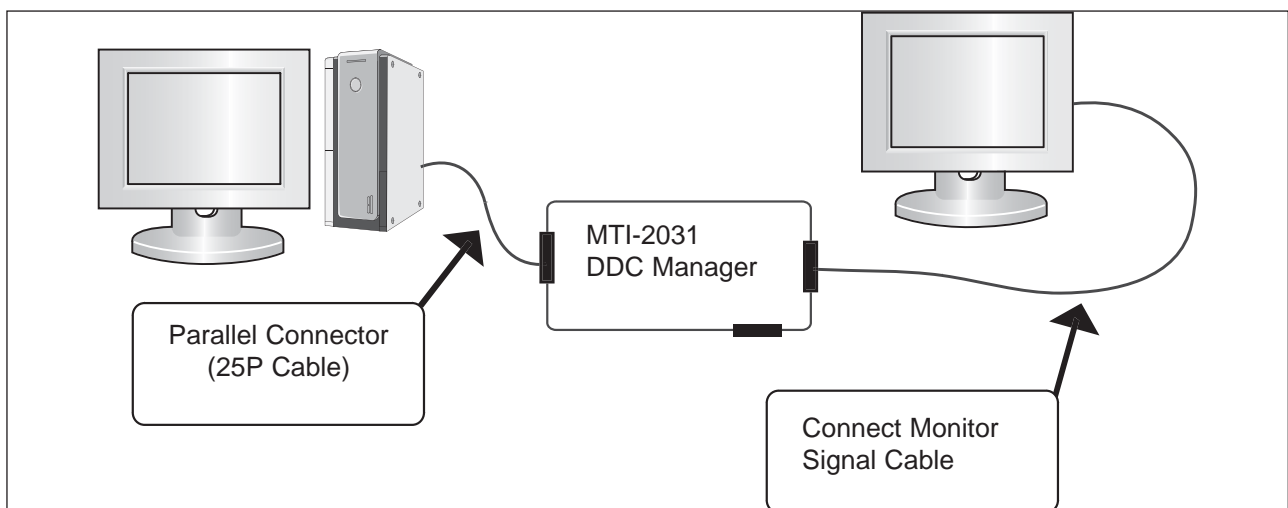



Figure 1.

3-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the  (Enter/Source) key for 5 second.
Service function OSD will appear on screen.
2. Press the + key to place the cursor on the panel. Press the menu key for 5 seconds.

3-5 OSD Adjustment When Replacing Lamp Only

1. Adjust brightness and contrast to 0. Then, press the exit key for 5 seconds.
Service function OSD will appear on the screen.
2. Press the + key. Select upper lamp and press the menu key for 5 seconds.
Then, select lower lamp and press the menu key for 5 seconds.

-Note : Please be sure to read the following instructions for details on service function.

3-4 Service Function Spec.

3-4-1 How to Display Service Function OSD

1. After setting both brightness and contrast to '0' push the 'enter' button more than 5 seconds.
2. service function appear as below.

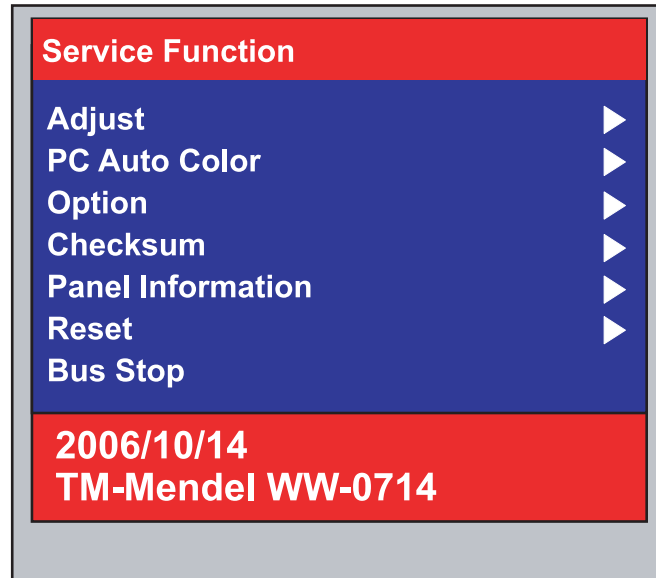


Figure 2.

3-4-2 How to Control Service Function OSD

1. Monitor On Time : Power on time
2. Panel Cycle : Panel on/off time(Power off, mode change, DPMS on/off..)
3. Panel : Panel on time
(Each time the panel is replaced press the menu key for 5 seconds to add to the Ch. No. indicating the number of time the panel has been changed.)
4. Upper lamp : Upper lamp on time
(When the upper lamp is replaced press menu to add to the Ch. No. which shows the number of times the lamp has been replaced.)
5. Lower lamp : lower lamp on time
(When the upper lamp is replaced press menu to add to the Ch. No. which shows the number of times the lamp has been replaced.)
6. Auto auto : If Auto auto menu set to on, when the mode is changed for the first time, Auto adjust function is performed. Default is on
7. Pixel Shift : Not used
8. Country : OSD language can be changed with this menu to World wide, Korean, China, or Japanese.

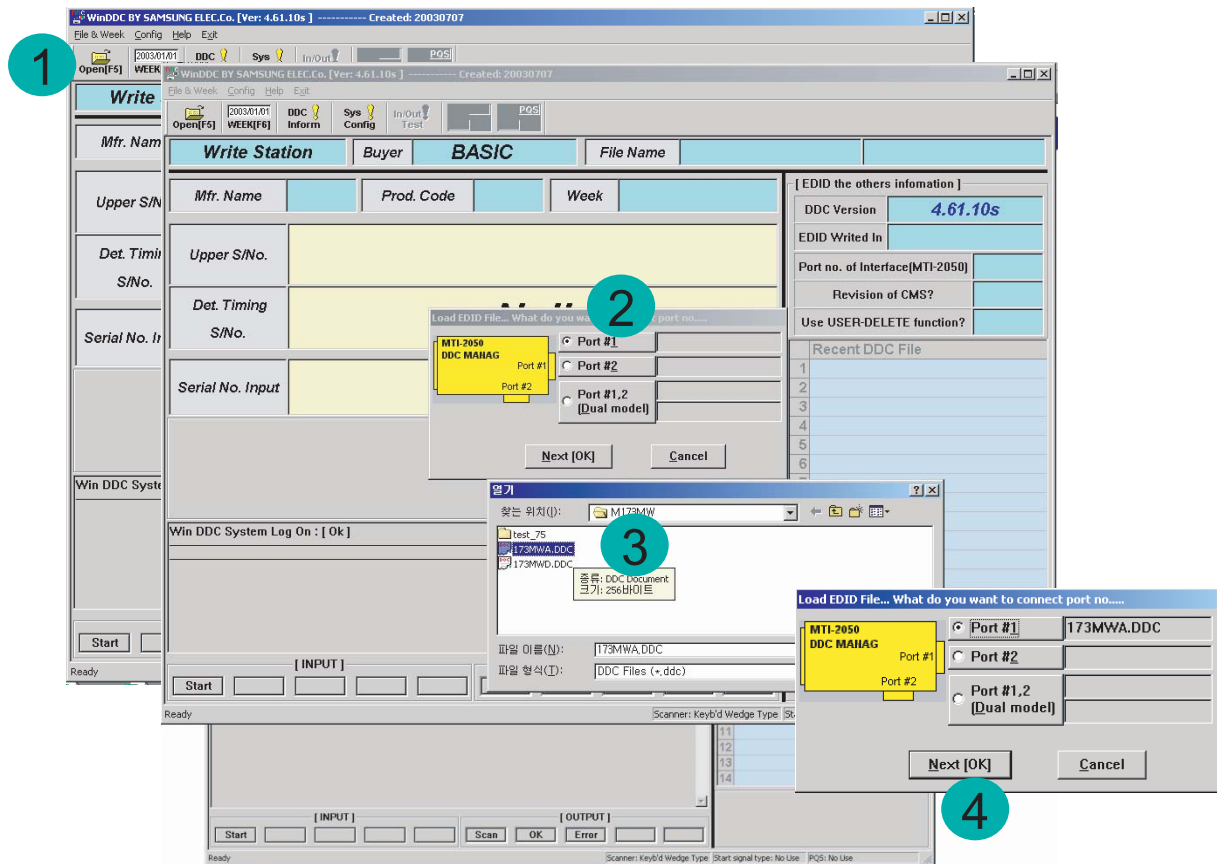
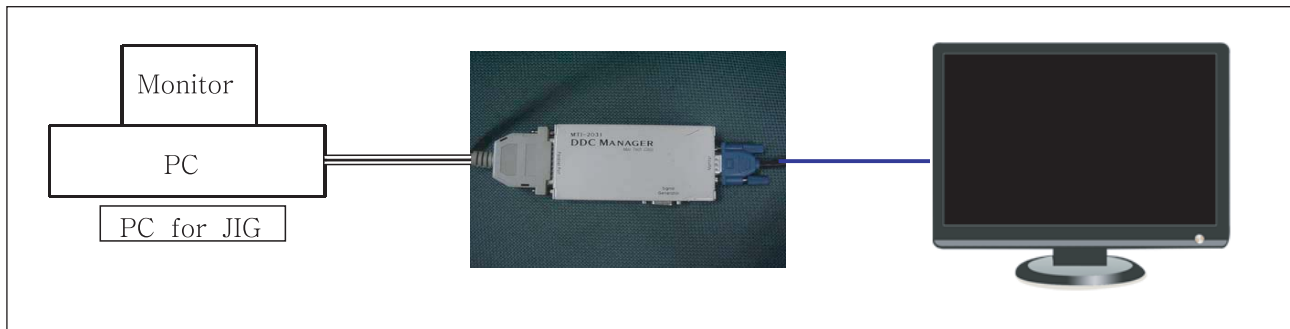
You can navigate the menu with "+"key, and adjust with "menu key" pressing 5 seconds(Panel, Upper Lamp, and Lower Lamp memu). You can also control Auto auto, Pixel Shift, and country menu with pressing "-"key.

3-5 Hidden Key list

No	Function	Action method
1.	Hidden Service Function	<ul style="list-style-type: none"> - After setting brightness and contrast '0' push the "Menu" button more than 5 seconds. - Service Function appear.
2.	Factory Reset	<ul style="list-style-type: none"> - While Menu is opened(any menu), press "enter" key over 5 seconds. - Screen is flashing, then all menus return to the factory default.
3.	Auto calibration	<p>To Analog video, In 16gray or any pattern using black and white and any mode.(16gray and XGA mode recommend)</p> <ol style="list-style-type: none"> 1. Push the OSD Menu button to open the OSD. 2. Select language English. 3. Push enter button during 5 seconds. 4. Screen is flashed and auto calibration is completed.
4.	OSD lock	<ul style="list-style-type: none"> - Press the Menu key over 5 seconds, then OSD is locked . - To unlocked the OSD, press the Memu key over 5 seconds.

3-6 DDC Input Method(Windows Program)

After change a Main Board ,DDC input shpuld be done via DDC control JIG.
Connecting method is refer to below picture.



1. Winddc.exe Program install in PC

2. Cilk the Winddc icon.

3. File open.

4. Select Port#1

Load DDC fileFile Name

- "206BW.ddc"

Click Next(OK) button.

WinDDC BY SAMSUNG ELEC.Co. [Ver: 4.61.10s] ----- Created: 20030707

File & Week Config Help Exit

Open[F5] WEEK[F6] DDC Inform Sys Config In/Out Test PQS

Write Station Buyer SAMSUNG File Name SM930BA

Mfr. Name SAM Prod. Code CB00 Week 47th of 2003

Upper S/No.

Det. Timing S/No. H1AK500000

Serial No. Input H1AK500000 Check Sum 0x6D

Win DDC System Log On : [Ok]

[Load File] The Analog File: 173MWA.DDC
[Week Input] 47th of 2003 [11/19]

[INPUT] [OUTPUT]

Start Scan OK Error

Ready Scanner: Keyb'd Wedge Type Start signal type: No Use PQS: No Use

[EDID the others information]

DDC Version 4.61.10s

EDID Written In EEPROM

Port no. of Interface[MTI-2050] #1

Revision of CMS? No CMS

Use USER-DELETE function? No

Recent DDC File

1 #1: 173MWA.DDC.#2

2

3

4

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7

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9

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11

12

13

14

5: Input a monitor serial number and push the enter key.

After Analog input, Please do # 2 ~ 5 when digital input.

3-7 Execution Items after replacing the main board

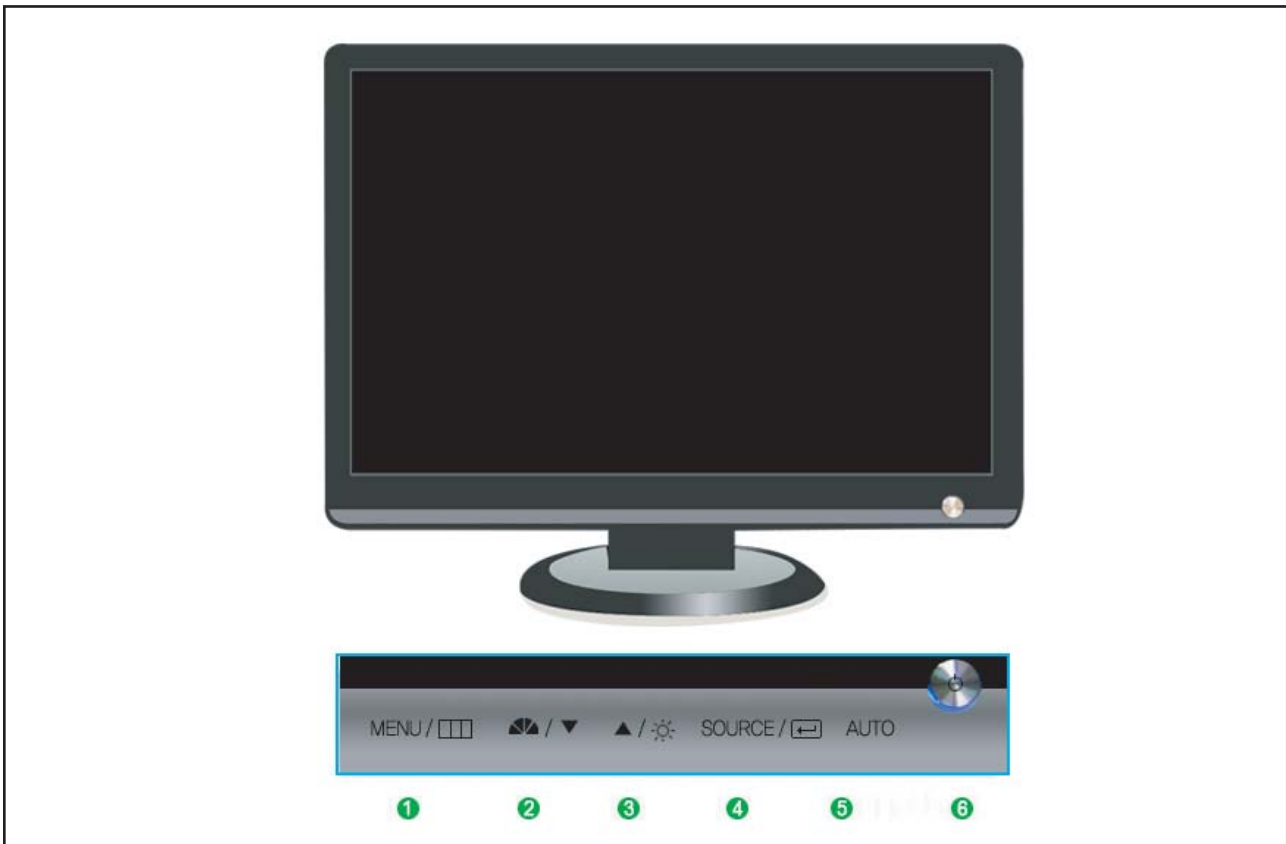
After Replacing the Maing Board

1. Auto Calibration
2. EDID installation(Analog and Digital)
3. Factory Reset

Memo

10 Operating Instructions and Installation

10-1 Front



1. Menu button

Opens the OSD menu. Also use to exit the OSD menu or return to the previous menu.

2. MagicBright button

MagicBright is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently six different modes are available: Custom, Text, Internet, Game, Sport and Movie. Each mode has its own pre-configured brightness value. You can easily select one of six settings by simply pressing MagicBright control buttons.

1) Custom

Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste. If this is the case, adjust the brightness and contrast by using the OSD menu.

2) Text

For documentations or works involving heavy text.

3) Internet

For working with a mixture of images such as text and graphics.

4) Game

For watching motion pictures such as a game.

5) Sport

For watching motion pictures such as a sport.

6) Movie

For watching motion pictures such as a DVD or Video CD.

6) Dynamic Contrast

Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

3. Bright button

When OSD is not on the screen, push the button to adjust brightness.

2,3. Adjust buttons

Adjust items in the menu.

4. Enter button / Source button

Activates a highlighted menu item. /

Push the 'SOURCE', then selects the video signal while the OSD is off. (When the source button is pressed to change the input mode, a message appears in the left upper side of the screen displaying the current mode -- analog or digital input signal.)

Note : If you select the digital mode, you must connect your monitor to the graphic card's port using the DVI cable.

5. Auto button

When the 'AUTO' button is pressed, the Auto Adjustment screen appears as shown in the animated screen on the center. Auto adjustment allows the monitor to self-adjust to the incoming video signal. The values of fine, coarse and position are adjusted automatically. (Available in analog mode only)

6. Power button

Use this button for turn the monitor on and off.

10-2 Rear



1. POWER port

Connect the power cord for your monitor to the power port on the back of the monitor.

2. DVI IN (HDCP) port

Connect the DVI Cable to the DVI port on the back of your monitor.

3. RGB IN port

Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.

4. Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place.

(The locking device has to be purchased separately.

For using a locking device, contact where you purchase it.)

10-3 Using the Stand

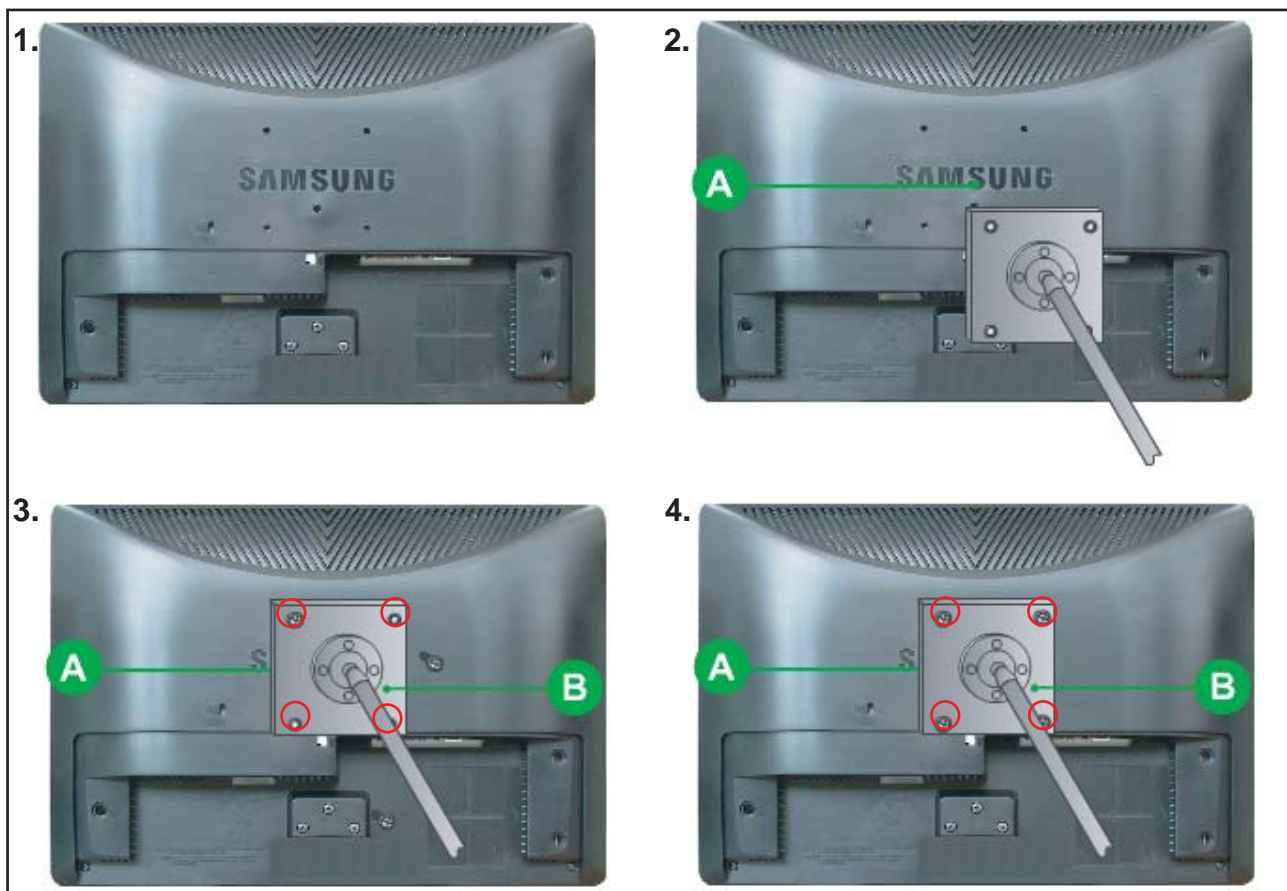
10-3-1 Removing the base



1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove four screws(A) and then remove the Stand from the LCD monitor.

10-3-2 Attaching a Base

- This monitor accepts a 100mm x 100mm VESA-compliant mounting interface pad.



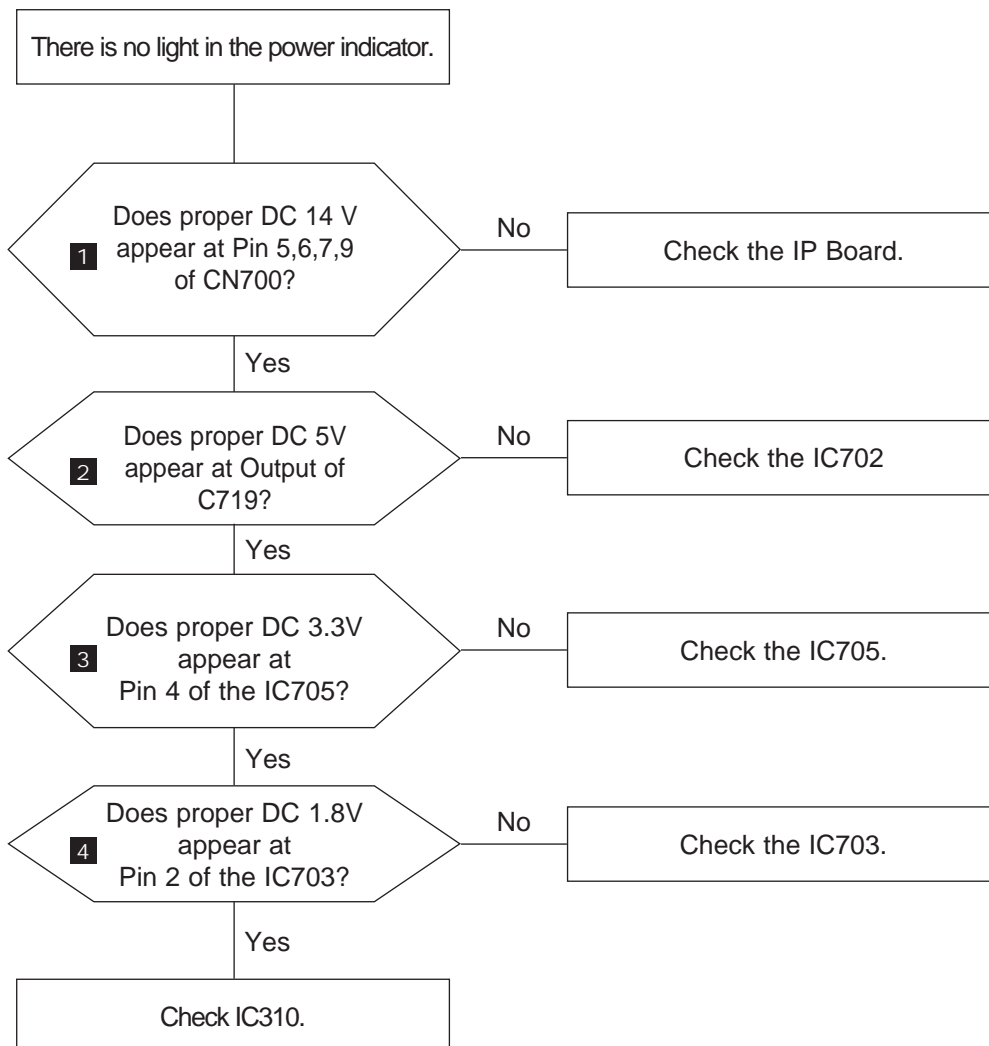
A. Monitor

B. Mounting interface pad

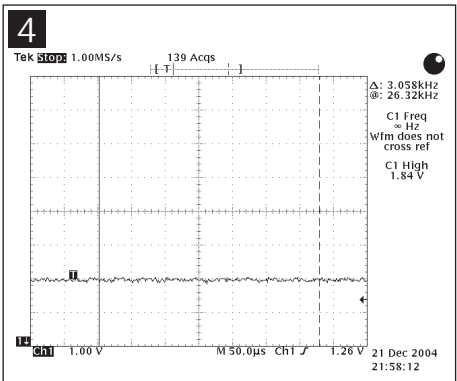
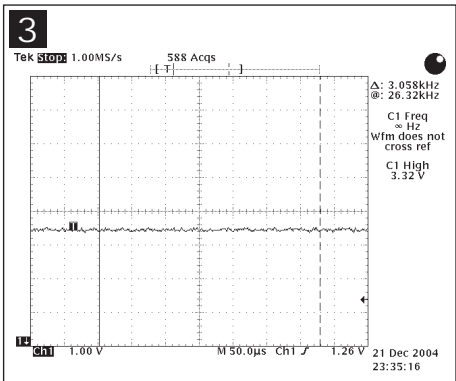
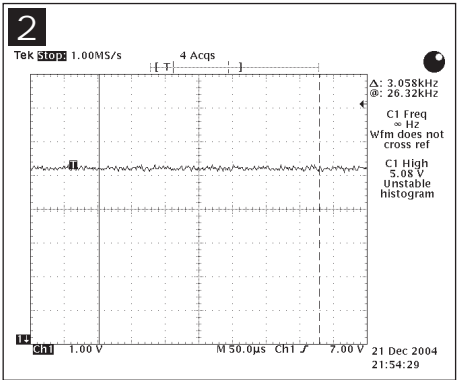
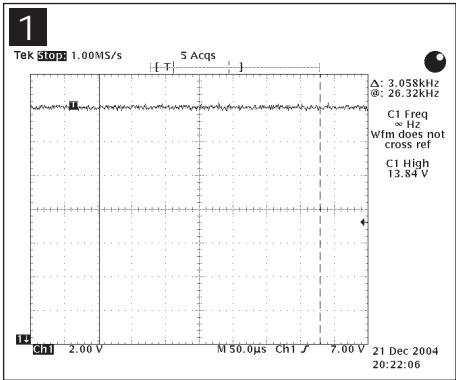
1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove four screws and then remove the stand from the LCD monitor.
4. Align the mounting interface Pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

4 Troubleshooting

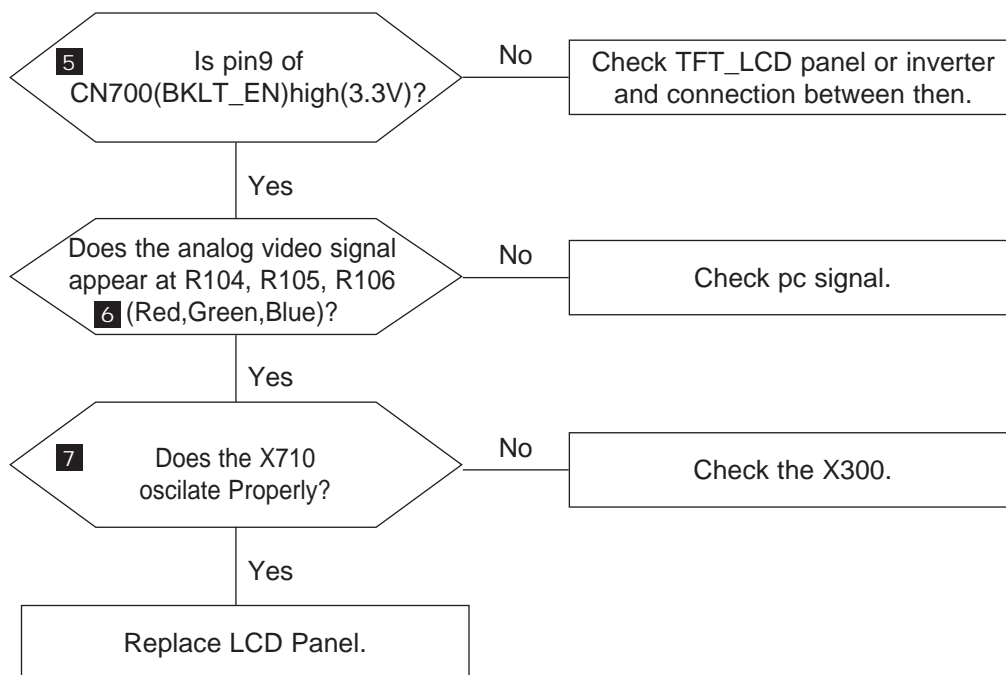
4-1 No Power



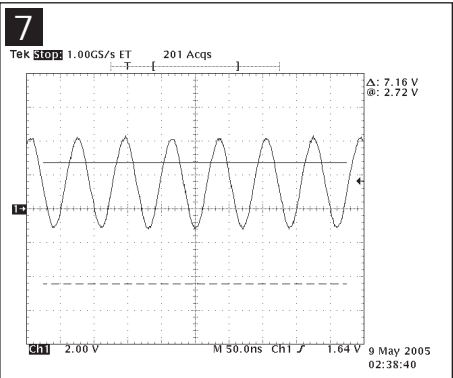
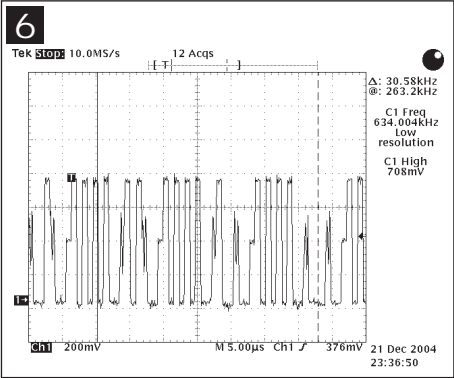
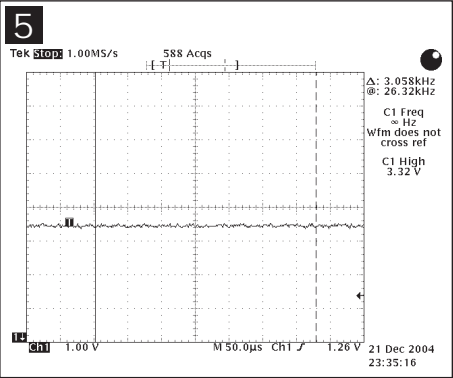
WAVEFORMS



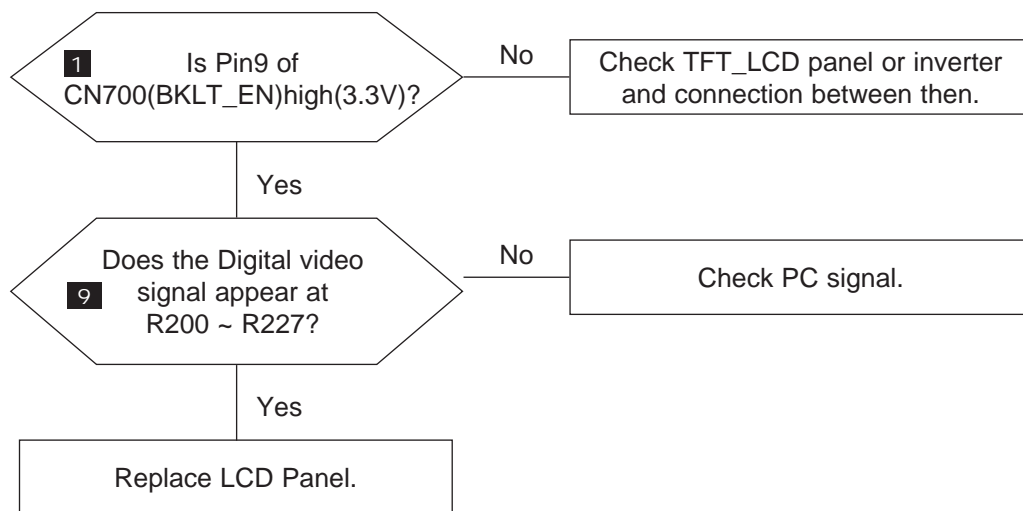
4-2 No Video (PC Analog Signal)



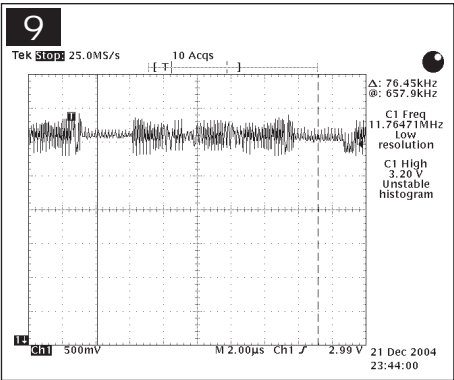
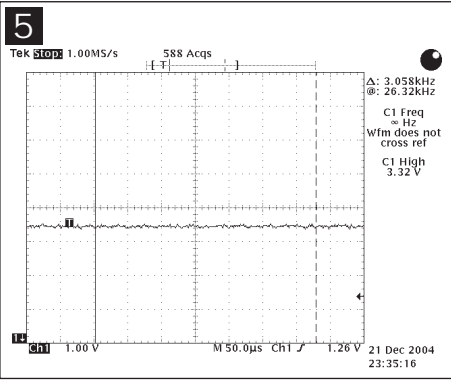
WAVEFORMS

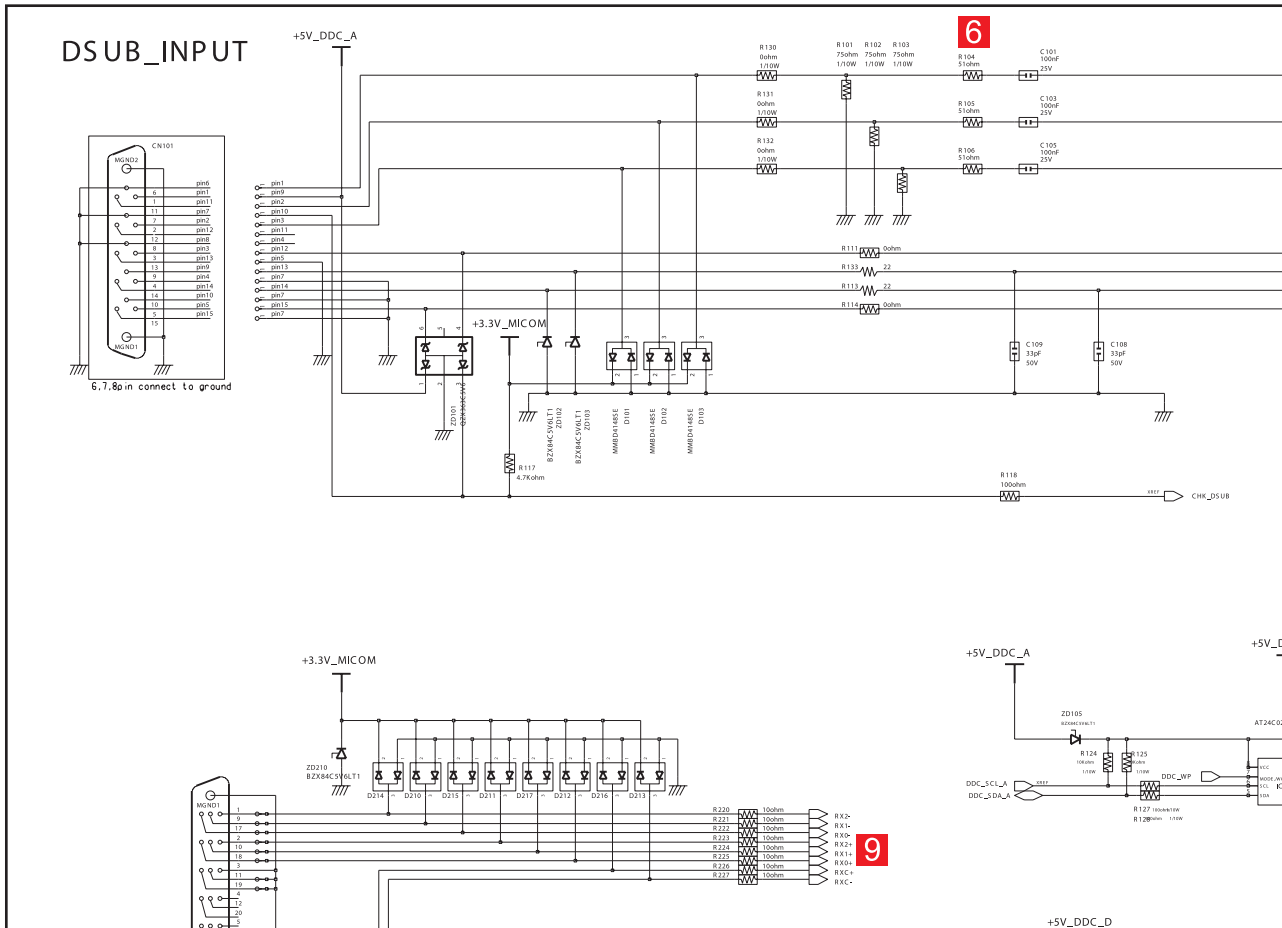
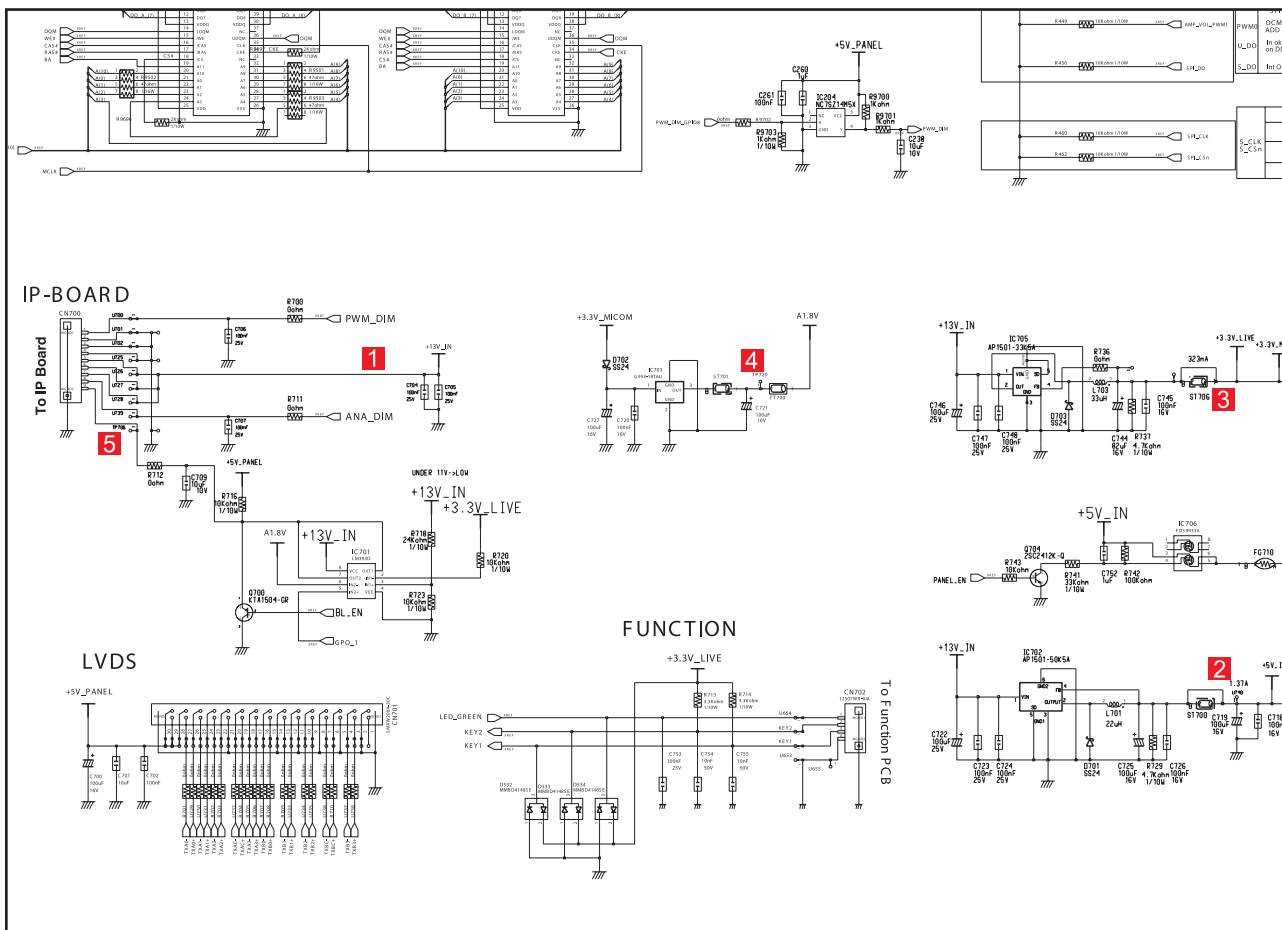


4-3 No Video (PC Digital Signal)

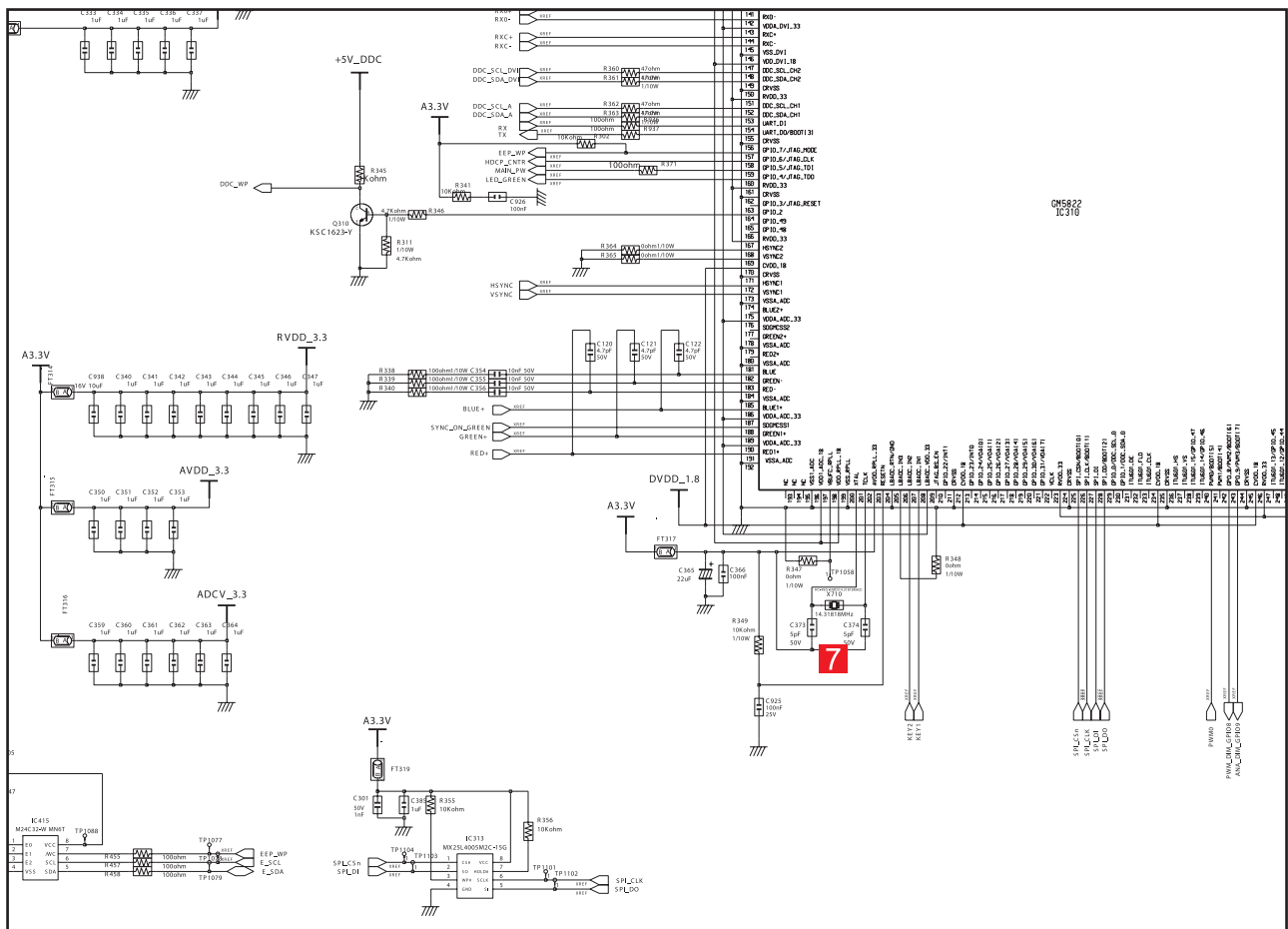


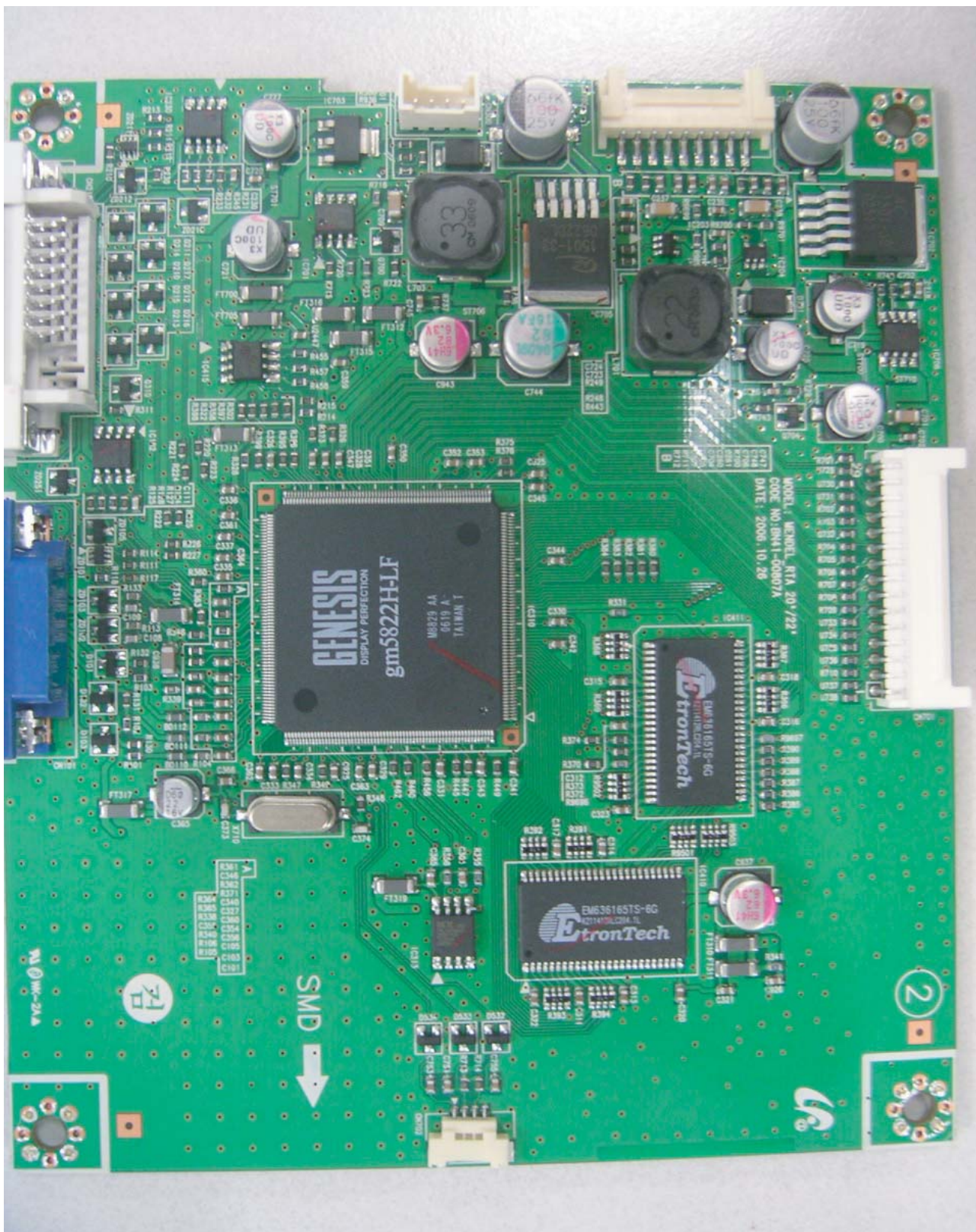
WAVEFORMS





4 Troubleshooting





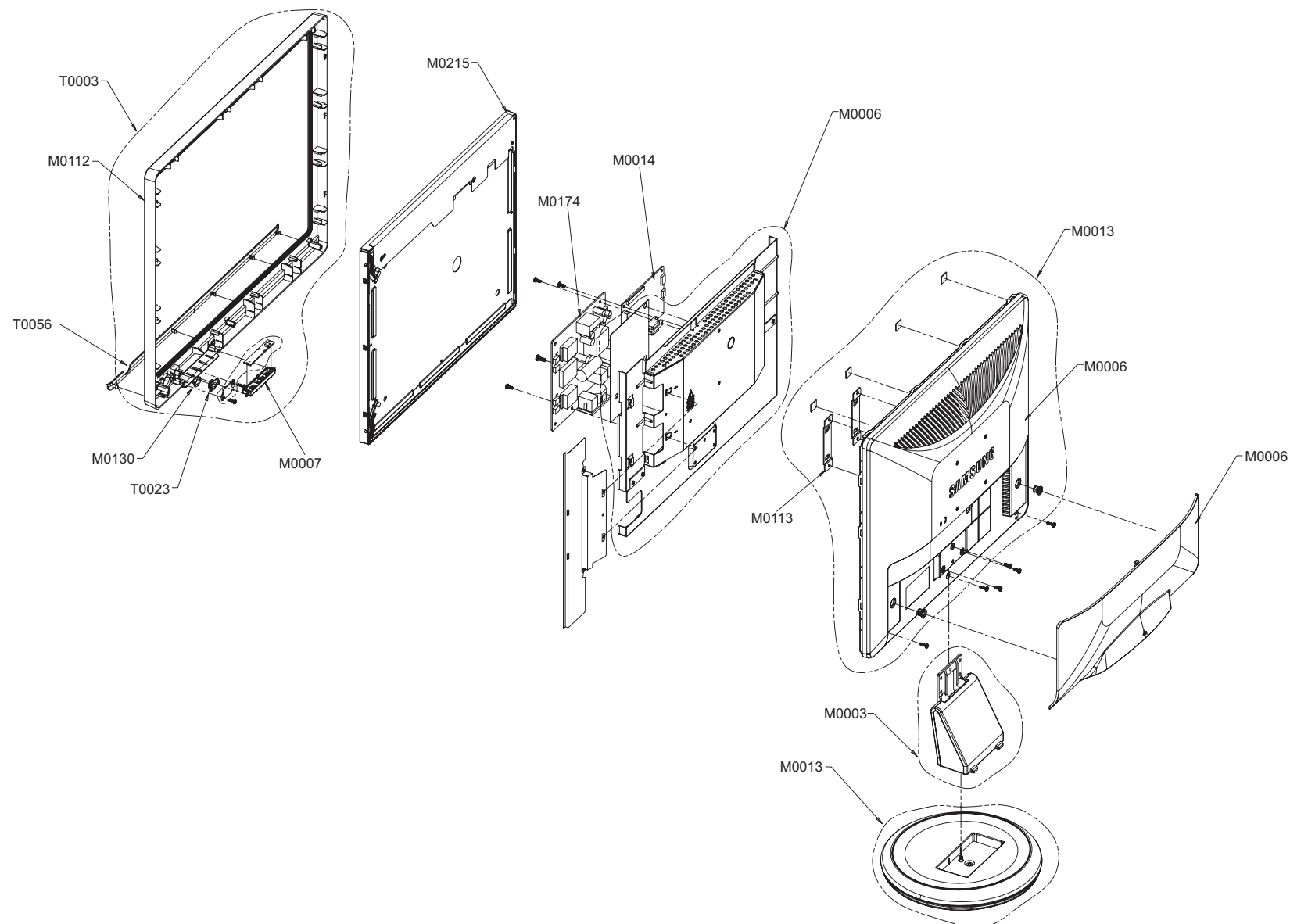
Memo

5 Exploded View and Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>

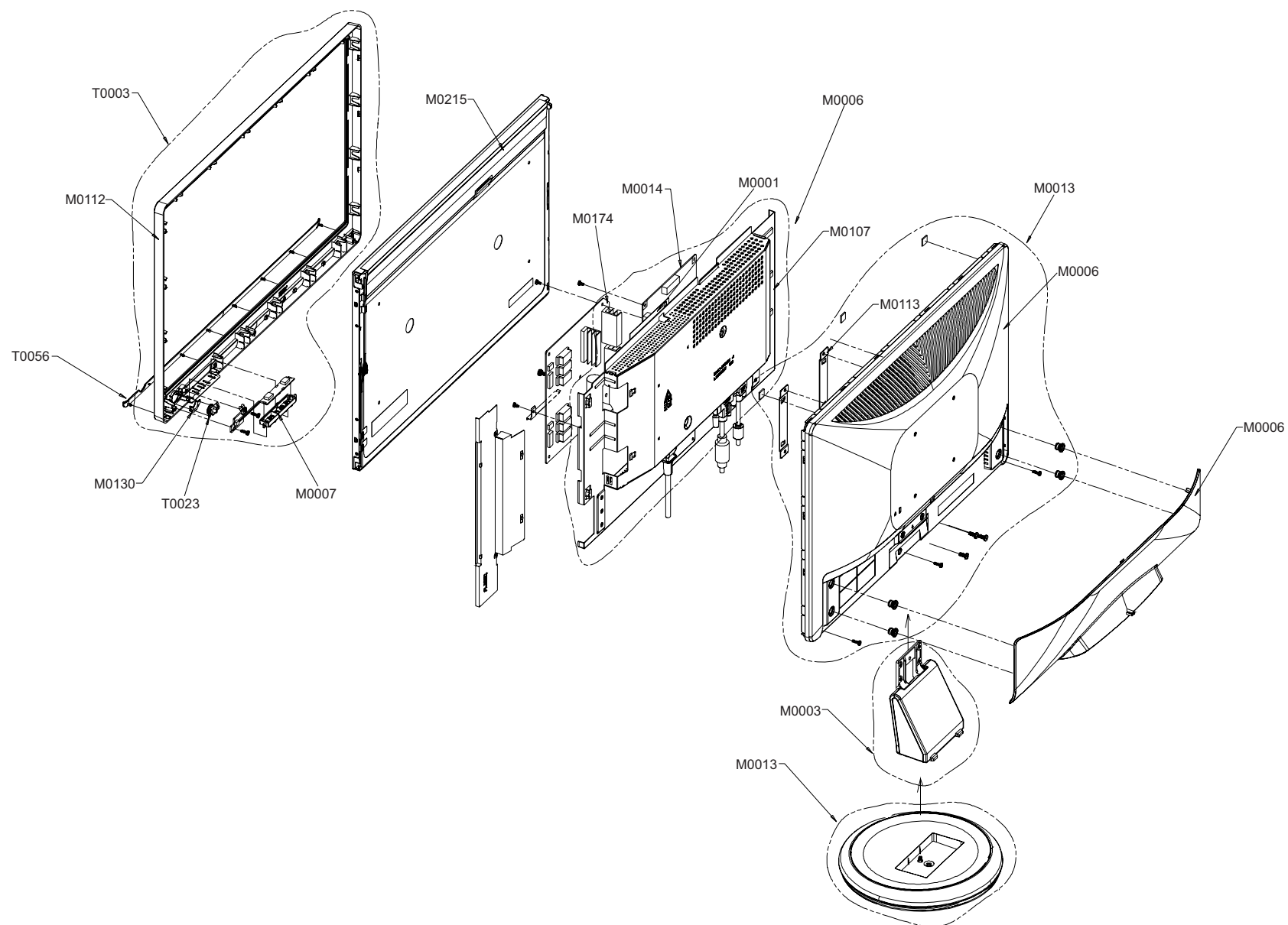
5-1 LHA20WS Exploded View



5-2 LHA20WS Parts List

Location.No	CODE-NO	SPECIFICATION & DESCRIPTION	Q'TY	SA/SNA	REMARK
T0003	BN96-04539A	ASSY COVER P-FRONT;LS20MEW,ABS HB,BK26,H	1	S.A	
M0112	BN63-02911A	COVER-FRONT;LS20MEW,ABS,HB,BK26,HIGHGLOS	1	S.N.A	
T0056	BN63-02912A	COVER-DECORATION;LS20MEW,ABS,HB,GR70(SVM	1	S.N.A	
M0130	BN67-00168A	LENS LED;LS17ME/LS19ME,ACRYL	1	S.N.A	
T0023	BN64-00473A	KNOB POWER;LS17ME/LS19ME,ABS,NTR	1	S.N.A	
M0007	BN64-00474A	KNOB-FUNCTION;LS17ME/LS19ME,ABS+PC,BK07	1	S.N.A	
M0215	BN07-00371A	LCD-PANEL;M201EW02 V8,Doppler,6bit Hi-FR	1	S.A	
M0006	BN96-04542C	ASSY SHIELD P-COVER;LS20MEW,SECC,T1.0,AU	1	S.N.A	
M0174	BN44-00127L	IP BOARD;FSP050-1PI02,206BW(4LAMP),3.0 ~	1	S.A	
M0014	BN94-01157A	ASSY PCB MAIN-STZ;LS20MEWSFV/XAA,W/W,AML	1	S.N.A	
M0013	BN96-04540B	ASSY COVER P-REAR;LS20MEW,HIPS HB,BK07,A	1	S.N.A	
M0006	BN63-02910A	COVER-REAR;LS20MEW,HIPS,HB,BK07	1	S.N.A	
M0113	BN61-02806A	BRACKET-VESA;LS20MEW,SECC,T1.0	2	S.N.A	
M0006	BN63-02909A	COVER-REAR SUB;LS20MEW,HIPS,HB,BK07	1	S.A	
M0003	BN96-04066B	ASSY STAND P;LS20MEW,HIPS HB,BK07	1	S.A	
M0013	BN96-04541A	ASSY STAND P-BASE;LS20MEW,ABS HB,BK26+BK	1	S.A	

5-3 LME22WS Parts List



5-4 LME22WS Parts List

Location.No	CODE-NO	SPECIFICATION & DESCRIPTION	Q'TY	SA/SNA	REMARK
T0003	BN96-04543A	ASSY COVER P-FRONT;LS22MEW,ABS HB,BK26,H	1	S.A	
M0112	BN63-02914A	COVER-FRONT;LS22MEW,ABS,HB,BK26,HIGHGLOS	1	S.N.A	
T0056	BN63-02913A	COVER-DECORATION;LS22MEW,ABS,HB,GR70(SVM	1	S.N.A	
M0130	BN67-00168A	LENS LED;LS17ME/LS19ME,ACRYL	1	S.N.A	
T0023	BN64-00473A	KNOB POWER;LS17ME/LS19ME,ABS,NTR	1	S.N.A	
M0007	BN64-00474A	KNOB-FUNCTION;LS17ME/LS19ME,ABS+PC,BK07	1	S.N.A	
M0215	BN07-00321A	LCD-PANEL;M220Z1-L01,Doppler,8bit,493.7*	1	S.A	
M0006	BN96-04545A	ASSY SHIELD P-COVER;LS22MEW,SECC,T1.0	1	S.N.A	
M0107	BN63-02918A	SHIELD-COVER;LS22MEW,SECC,T1.0	1	S.N.A	
M0001	BN63-01774A	SHIELD-INSULATOR;BI17/19BS,PET,T0.35	1	S.N.A	
M0014	BN94-01158A	ASSY PCB MAIN-STZ;LS22MEWSFV/XAA,W/W,AML	1	S.N.A	
M0174	BN44-00127M	IP BOARD;IP-45130A(WN),226BW,3.0 ~5.0mA,	1	S.A	
M0013	BN96-04544A	ASSY COVER P-REAR;LS22MEW,HIPS HB,BK07	1	S.A	
M0006	BN63-02915A	COVER-REAR;LS22MEW,HIPS,HB,BK07	1	S.N.A	
M0113	BN61-02806A	BRACKET-VESA;LS20MEW,SECC,T1.0	2	S.N.A	
M0006	BN63-02916A	COVER-REAR SUB;LS22MEW,HIPS,HB,BK07	1	S.A	
M0003	BN96-01953E	ASSY STAND P;LS19MDB,HIPS,BK07	1	S.A	
M0013	BN96-04541A	ASSY STAND P-BASE;LS20MEW,ABS HB,BK26+BK	1	S.A	

6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

6-1 LME20WS Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
		LS20MEWSFV/XAA	206BW,WSE1/S20A1-LME,20,LCD-MQ,UNITED ST		
0.1	M0216	BN90-01037B	ASSY STAND;LS20MEW	1	S.N.A
..2	M0003	BN96-04066B	ASSY STAND P;LS20MEW,HIPS HB,BK07	1	S.A
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	6	S.N.A
...3	STD	BN63-01842E	COVER-STAND FRONT;LS19MDB,HIPS,HB,BK07	1	S.N.A
...3	STD	BN63-01843E	COVER-STAND REAR;LS19MDB,HIPS,HB,BK07	1	S.N.A
...3	T0054	BN96-04161A	ASSY HINGE P;LS19WBP,SECC T2.0	1	S.N.A
0.1	M0001	BN90-01128A	ASSY COVER FRONT;LS20MEWSFV/XAA	1	S.N.A
..2	T0003	BN96-04539A	ASSY COVER P-FRONT;LS20MEW,ABS HB,BK26,H	1	S.A
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	2	S.N.A
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.5	S.N.A
...3	M0112	BN63-02911A	COVER-FRONT;LS20MEW,ABS,HB,BK26,HIGHGLOS	1	S.N.A
...3	T0056	BN63-02912A	COVER-DECORATION;LS20MEW,ABS,HB,GR70(SVM	1	S.N.A
...3	T0023	BN64-00473A	KNOB POWER;LS17ME/LS19ME,ABS,NTR	1	S.N.A
...3	M0007	BN64-00474A	KNOB-FUNCTION;LS17ME/LS19ME,ABS+PC,BK07	1	S.N.A
...3	M0130	BN67-00168A	LENS LED;LS17ME/LS19ME,ACRYL	1	S.N.A
...3	M0145	BN96-03255C	ASSY BOARD P-FUNCTION;206BW,SJ06-01-003C	1	S.A
0.1	M0002	BN90-01129D	ASSY COVER REAR;LS20MEWSFV/XAA,AU PANEL	1	S.N.A
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	3	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,-,S,M4,L10,ZPC(BLK),SWR	3	S.A
..2	M0006	BN63-02909A	COVER-REAR SUB;LS20MEW,HIPS,HB,BK07	1	S.A
..2	M0013	BN96-04540B	ASSY COVER P-REAR;LS20MEW,HIPS HB,BK07,A	1	S.N.A
...3	M0113	BN61-02806A	BRACKET-VESA;LS20MEW,SECC,T1.0	2	S.N.A
...3	M0006	BN63-02910A	COVER-REAR;LS20MEW,HIPS,HB,BK07	1	S.N.A
...3	M0126	BN73-00049E	RUBBER-FOOT;LS20MEW,RUBBER,CR,LIGHT GRAY	4	S.N.A
...3		BN73-00089A	RUBBER-SET CAP;PO24FS,Elatomer,20~30	2	S.N.A
0.1	M0112	BN91-01284A	ASSY SHIELD;LS20MEWSFV/XAA	1	S.N.A
..2		BN63-02919A	SHIELD-LAMP;LS20MEW,SPTT,T0.3	1	S.N.A
0.1		BN91-01303H	ASSY LCD-ATZ;LS20MEW*	1	S.N.A
..2	M0215	BN07-00371A	LCD-PANEL;M201EW02 V8,Doppler,6bit Hi-FR	1	S.A
0.1	M0017	BN91-01320K	ASSY CHASSIS-ATZ;W/W;LS20MEW*	1	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(BLK),SWRC	2	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(WHT),SW	1	S.N.A
..2	T0562	6046-001013	STAND OFF;M3,L5,Ni PLT,SUM24L,#4-40	4	S.N.A
..2	M2893	BN39-00664A	LEAD CONNECTOR-LVDS;LS19BIC,UL1571#30,30	1	S.A
..2	M0174	BN44-00127L	IP BOARD;FSP050-1PI02,206BW(4LAMP),3.0 ~	1	S.A
..2		BN61-02426A	BRACKET-SHIELD;S/M 203B,SPTT,T0.3	1	S.N.A
..2	M0014	BN94-01157A	ASSY PCB MAIN-STZ;LS20MEWSFV/XAA,W/W,AML	1	S.N.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A
...3	CN210	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN701	3711-005884	HEADER-BOARD TO BOARD;BOX,30P,2R,2mm,ANG	1	S.A
...3	HDCP	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
...4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
...3	T0174	BN97-01299A	ASSY SMD;LS20MEWSFV/XAA,W/W	1	S.N.A
...4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	0.089	S.N.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D210	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
...4	D211	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D212	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D213	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D214	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D215	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D216	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D217	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D532	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D533	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D534	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D701	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D702	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D703	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD210	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD212	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD251	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	S.A
....4	ZD211	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	S.A
....4	Q310	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	S.A
....4	Q704	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	S.A
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	S.A
....4	IC112	1103-001279	IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x	1	S.A
....4	IC113	1105-001284	IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50	1	S.A
....4	IC113	1105-001284	IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50	1	S.A
....4	IC701	1202-000164	IC-VOLTAGE COMP.;393,SOP,8P,150MIL,DUAL,	1	S.A
....4	IC705	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	S.A
....4	IC702	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	S.A
....4	T0087	1203-003704	IC-POS.FIXED REG.;G953-18T6U,SOT-223,3P	1	S.A
....4	IC109	1205-003120	IC-LCD CONTROLLER;GM5822H-LF,PQFP,256P,2	1	S.A
....4	R341	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R355	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R356	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R720	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R723	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R130	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R131	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R132	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R211	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R212	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R347	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R348	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R358	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R370	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R372	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R373	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R374	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R380	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R381	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R382	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R383	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R384	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R385	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R386	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R387	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R388	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R389	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R390	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R399	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R700	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R701	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R702	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R703	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R704	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R705	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R706	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R707	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R708	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R709	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R710	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R711	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R712	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R736	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R9702	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U729	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U730	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U731	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U732	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U733	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U734	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U735	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U736	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U737	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	U738	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R360	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R361	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R362	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R363	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	SA
....4	R118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R127	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R128	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R213	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R214	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R232	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R338	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R339	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R340	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R371	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R455	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R457	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R458	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R936	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R937	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	SA
....4	R328	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	SA
....4	R249	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R345	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9698	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9699	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9700	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9701	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9703	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	SA
....4	R9696	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	SA
....4	R9697	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	SA
....4	R395	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R396	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R397	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R398	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R713	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA
....4	R714	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R117	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R311	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R346	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R729	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R737	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R124	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R125	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R230	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R231	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R300	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R301	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R302	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R349	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R443	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R445	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R447	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R449	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R456	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R460	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R462	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R716	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R743	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R742	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	S.A
....4	R331	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	S.A
....4	R741	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	S.A
....4	R316	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R326	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R375	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R376	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	S.A
....4	R220	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R221	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R222	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R223	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R224	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R225	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R226	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R227	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	S.A
....4	R113	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	S.A
....4	R133	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	S.A
....4	R718	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	S.A
....4	R210	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	S.A
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A
....4	R366	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R367	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R368	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R369	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R391	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R392	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R393	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R394	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R9501	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R9502	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	R9503	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	S.A
....4	C101	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C103	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C105	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C235	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C261	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C704	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C705	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C706	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C707	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C723	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C724	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C747	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C748	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C753	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C925	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C926	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A
....4	C111	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	S.A
....4	C354	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C355	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C356	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C754	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C755	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C301	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C109	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C373	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	S.A
....4	C374	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	S.A
....4	C230	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C366	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C702	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C718	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C720	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C726	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C745	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C236	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C260	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C311	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C312	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C313	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C314	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C315	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C316	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C317	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C318	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C320	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C321	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C322	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C323	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C325	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C326	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C327	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C328	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C329	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C330	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C331	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C333	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C334	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C335	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C336	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C337	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C340	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C341	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C342	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C343	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C344	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C345	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C346	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C347	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C350	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C351	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C352	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C353	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C359	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C360	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C361	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C362	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	C363	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
...4	C364	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
...4	C385	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
...4	C752	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
...4	U2447	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
...4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
...4	C238	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
...4	C701	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
...4	C709	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
...4	C938	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
...4	C722	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
...4	C746	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
...4	C700	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	S.A
...4	C719	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
...4	C721	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
...4	C725	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
...4	C727	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
...4	C365	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
...4	C937	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
...4	C943	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
...4	C744	2409-001065	C-ORGANIC;82uF,20%,16V,WT,TP,8X6.9mm,-	1	S.A
...4	X710	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16,	1	S.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
...4	CN330	3711-005503	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,SMD-	1	S.A
...4	CN330	3711-005509	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	S.A
...4	L701	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5,GH15/17PS,22	1	S.A
...4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-.0.	1	S.A
...4	T0077	BN41-00807A	PCB MAIN;206BW,FR-4,2L,1.0,1.6,138*120*1	1	S.N.A
...4	MAIN	BN97-00895J	ASSY MICOM-MAIN;M-ME20W0BAa-1001,(EB96),	1	S.N.A
...5	IC115	1107-001580	IC-FLASH MEMORY;MX25L4005,4Mbit,512Kx8Bi	1	S.N.A
...4	Q700	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	1	S.A
...4	P803T	1404-001223	THERMISTOR-PTC;45mohm,20,6V,-,40A,4A,TP	1	S.A
...4	C919_DE	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	S.A
...4	CN906	3711-002049	CONNECTOR-HEADER;BOX,6P,1R,1.25mm,SMD-A,	1	S.A
...4	R104	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
...4	R105	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
...4	R106	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
...4	C120	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
...4	C121	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
...4	C122	2203-000903	C-CER,CHIP;0.0047nF,0.25pF,50V,C0G,1608	1	S.A
..2	M0006	BN96-04542C	ASSY SHIELD P-COVER;LS20MEW,SECC,T1.0,AU	1	S.N.A
0.1	M0113	BN92-02266A	ASSY P/MATERIAL;LS20MEWSFV/XAA	1	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.01	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.002	S.N.A
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.31	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.019	S.N.A
..2	T0524	6902-000758	BAG PE;HDPE/HDPE/NITRON(DOUBLE),T0.015/T	1	S.N.A
0.1	M0003	BN92-02268B	ASSY BOX;LS20MEWSFV/XAA	1	S.N.A
..2	M0014	BN69-01579A	BOX-01,MONITOR;LS20MEW,CB,SY05,A1,W551,D	1.02	S.N.A
..2	T0081	BN96-02895A	ASSY MISC P-HANDLE PACKING;ALL MODEL,BN6	1	S.N.A
...3	M0103	BN66-00007A	LEVER-TOP;ALL MODEL,LDPE,WHITE	1	S.N.A
...3	M0102	BN66-00008A	LEVER-BOTTOM;ALL MODEL,LDPE,WHITE	1	S.N.A
0.1	M0045	BN92-02270A	ASSY ACCESSORY;LS20MEWSFV/XAA	1	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
..2	M0114	BN39-00244B	CBF SIGNAL;MO15PS,15P/15P,20276-N,1830mm	1	S.A
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	S.A
..2	M0013	BN96-04541A	ASSY STAND P-BASE;LS20MEW,ABS HB,BK26+BK	1	S.A
...3	M0081	6003-001001	SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC	4	S.N.A
...3	T0524	6902-000389	BAG PE;HDPE/NITRON/HDPE,T0.015/T0.5/T0.0	1	S.N.A
...3	M0142	BN61-00251A	FOOT-RUBBER;GH17BS,RUBBER,T1.6	4	S.N.A
...3		BN61-01235A	SUPPORT-BRKT BASE;MJ19AS/BS,SECC,T1.6	1	S.N.A
...3	CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5)	1	S.A
...3		BN63-02746A	COVER-STAND,TOP;LS19ME,ABS,HB,BK26,HIGH	1	S.N.A
...3	T0004	BN63-02963A	COVER-STAND BASE;LS20MEW,HIPS HB,BK07	1	S.N.A
...3	M0412	BN63-02964A	COVER-SWIVEL BASE;LS20MEW,HIPS HB,BK07	1	S.N.A
...3		BN63-02965A	COVER-SWIVEL RING;LS20MEW,POM HB,BLK	1	S.N.A
...3		BN68-00786F	MANUAL FLYER-02,QSG;Bizet Stand Manual,S	1	S.N.A
..2	M0045	BN96-04581A	ASSY ACCESSORY;LS20MEWSFV/XAA	1	S.A
...3	T0268	3903-000085	CBF-POWER CORD;DT,US,BP3/YES,I(IEC C13/C	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	T0238	AA68-03870A	MANUAL FLYER-REGISTRATION CARD;comm,Sams	1	S.N.A
...3	ACCESSORY	BH68-00261F	MARK RECYCLE-CARD WARRANTY-05;SyncMaster	1	S.N.A
...3	ACCESSORY	BH68-00344C	CARD WARRANTY-02;SECA WTY & CRM CARD,SE	1	S.N.A
...3	ACCESSORY	BN68-00832C	MANUAL FLYER-01,REGISTRATION C;SECA all,	1	S.N.A
...3	ACCESSORY	BN68-00832D	MANUAL FLYER-01,REGISTRATION C;SECA all,	1	S.N.A
...3	M0215	BN96-03250H	ASSY MANUAL P-IB+QSG;206BW,226BW,W/W,L30	1	S.N.A
....4	QSG	BH68-00376L	MANUAL FLYER-04,QSG;LCDQUICK SETUP GUIDE	1	S.N.A
....4	I/B	BN59-00521H	S/W DRIVER-00,IB;206BW,226BW,W/W,SyncMas	1	S.N.A
...3	ACCESSORY	BN63-02368A	CLOTH;LS07BTT,SUEDE,0.6,160,120	1	S.N.A
0.1	M0019	BN92-02280A	ASSY LABEL;LS20MEWSFV/XAA	1	S.N.A

6 Electrical Parts List

6-2 LME22WS Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
		LS22MEWSFV/EDC	226BW,WSF1/S22A1-LME,22,LCD-MO,NETHERLAN		
0.1	M0001	BN90-01131A	ASSY COVER FRONT;LS22MEWSFV/XAA	1	S.N.A
..2	T0003	BN96-04543A	ASSY COVER P-FRONT;LS22MEW,ABS HB,BK26,H	1	S.A
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	2	S.N.A
...3	CCM1	BN63-02183D	COVER-SHEET;RhcM,PE Vinyl,T0.05,680mm,20	0.5	S.N.A
...3	T0056	BN63-02913A	COVER-DECORATION;LS22MEW,ABS,HB,GR70(SVM	1	S.N.A
...3	M0112	BN63-02914A	COVER-FRONT;LS22MEW,ABS,HB,BK26,HIGHGLOS	1	S.N.A
...3	T0023	BN64-00473A	KNOB POWER;LS17ME/LS19ME,ABS,NTR	1	S.N.A
...3	M0007	BN64-00474A	KNOB-FUNCTION;LS17ME/LS19ME,ABS+PC,BK07	1	S.N.A
...3	M0130	BN67-00168A	LENS LED;LS17ME/LS19ME,ACRYL	1	S.N.A
...3	M0145	BN96-03255C	ASSY BOARD P-FUNCTION;206BW,SJ06-01-003C	1	S.A
0.1	M0002	BN90-01132A	ASSY COVER REAR;LS22MEWSFV/XAA	1	S.N.A
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	3	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,-,S,M4,L10,ZPC(BLK),SWR	3	S.A
..2	M0006	BN63-02916A	COVER-REAR SUB;LS22MEW,HIPS,HB,BK07	1	S.A
..2	M0013	BN96-04544A	ASSY COVER P-REAR;LS22MEW,HIPS HB,BK07	1	S.A
...3	M0113	BN61-02806A	BRACKET-VESA;LS20MEW,SECC,T1.0	2	S.N.A
...3	M0006	BN63-02915A	COVER-REAR;LS22MEW,HIPS,HB,BK07	1	S.N.A
...3	T0132	BN73-00049A	RUBBER FOOT;MO 15,17,19,CR,11*11,60,T1.5	3	S.N.A
...3		BN73-00089A	RUBBER-SET CAP;PO24FS,Elatomer SANTOPREN	4	S.N.A
0.1	M0107	BN91-01035N	ASSY LCD-CTZ;LS22DPWCsq/EDC	1	S.N.A
..2	M0215	BN07-00321A	LCD-PANEL;M220Z1-L01,Doppler,8bit,493.7"	1	S.A
0.1	M0017	BN91-01283A	ASSY CHASSIS-STZ-W/W;LS22MEWSFV/XAA	1	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(BLK),SWRC	2	S.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(BLK),SWRC	1	S.A
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(WHT),SW	1	S.N.A
..2	T0562	6046-001013	STAND OFF;M3,L5,Ni PLT,SUM24L,#4-40	4	S.N.A
..2	M2893	BN39-00664A	LEAD CONNECTOR-LVDS;LS19BIC,UL1571#30,30	1	S.A
..2	M0174	BN44-00127M	IP BOARD;IP-45130A(WN),226BW,3.0 -5.0mA,	1	S.A
..2	M0014	BN94-01158A	ASSY PCB MAIN-STZ;LS22MEWSFV/XAA,W/W,AML	1	S.N.A
...3	T0245	0202-001492	SOLDER-WIRE FLUX;HSE-02 LFM48 SR-34 S,-,	0.003	S.N.A
...3	CN210	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	S.A
...3	CN701	3711-005884	HEADER-BOARD TO BOARD;BOX,30P,2R,2mm,ANG	1	S.A
...3	HDCP	BN97-00688A	ASSY HDCP;BN46-00018A,PS-42V6S,D73A,GENE	1	S.N.A
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
...3	T0174	BN97-01305A	ASSY SMD;LS22MEWSFV/XAA,W/W	1	S.N.A
....4	SUB05	0202-001477	SOLDER-CREAM;LST309-M,-,D20-45\$,96.5Sn/	0.089	S.N.A
....4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D210	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D211	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D212	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D213	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D214	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D215	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D216	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D217	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D532	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D533	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D534	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A
....4	D701	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D702	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	D703	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A
....4	ZD210	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	ZD212	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	SA
....4	ZD251	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	SA
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	SA
....4	ZD211	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	SA
....4	Q310	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	SA
....4	Q704	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	SA
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	SA
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	SA
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	SA
....4	IC112	1103-000129	IC-EEPROM;24C02,2Kbit,256x8Bit,SOP,8P,5x	1	SA
....4	IC112	1103-001279	IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x	1	SA
....4	IC113	1105-001284	IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50	1	SA
....4	IC113	1105-001284	IC-DRAM;636165,-,16Mbit,1Mx16Bit,TSOP,50	1	SA
....4	IC701	1202-000164	IC-VOLTAGE COMP.;393,SOP,8P,150MIL,DUAL,	1	SA
....4	IC705	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	SA
....4	IC702	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	SA
....4	T0087	1203-003704	IC-POS.FIXED REG.;G953-18T6U,SOT-223,3P	1	SA
....4	IC109	1205-003120	IC-LCD CONTROLLER;GM5822H-LF,PQFP,256P,2	1	SA
....4	R341	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R355	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R356	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R720	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R723	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	SA
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R130	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R131	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R132	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R211	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R212	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R347	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R348	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R358	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R370	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R372	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R373	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R374	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R380	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R381	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R382	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R383	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R384	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R385	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R386	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R387	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R388	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R389	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R390	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R399	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R700	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R701	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R702	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R703	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R704	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R705	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R706	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA
....4	R707	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R708	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R709	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R710	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R711	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R712	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R736	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R9702	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U729	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U730	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U731	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U732	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U733	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U734	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U735	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U736	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U737	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	U738	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A
....4	R360	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R361	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R362	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R363	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A
....4	R118	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R127	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R128	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R213	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R214	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R232	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R233	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R338	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R339	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R340	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R371	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R455	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R457	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R458	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R936	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R937	2007-000074	R-CHIP;100ohm,5%,1/10W,TP,1608	1	S.A
....4	R328	2007-000075	R-CHIP;220ohm,5%,1/10W,TP,1608	1	S.A
....4	R249	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R345	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9698	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9699	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9700	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9701	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9703	2007-000078	R-CHIP;1Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9696	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R9697	2007-000080	R-CHIP;2Kohm,5%,1/10W,TP,1608	1	S.A
....4	R395	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R396	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R397	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R398	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R713	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R714	2007-000082	R-CHIP;3.3Kohm,5%,1/10W,TP,1608	1	S.A
....4	R117	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R311	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R346	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R729	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R737	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	S.A
....4	R124	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R125	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R215	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R230	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A
....4	R231	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	S.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R300	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R301	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R302	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R349	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R443	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R445	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R447	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R449	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R456	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R460	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R462	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R716	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R743	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	SA
....4	R742	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	SA
....4	R331	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	SA
....4	R741	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	SA
....4	R316	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	SA
....4	R326	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	SA
....4	R375	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	SA
....4	R376	2007-000287	R-CHIP;100OHM,1%,1/10W,TP,1608	1	SA
....4	R220	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R221	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R222	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R223	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R224	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R225	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R226	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R227	2007-000309	R-CHIP;10ohm,5%,1/10W,TP,1608	1	SA
....4	R113	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA
....4	R133	2007-000591	R-CHIP;22ohm,1%,1/10W,TP,1608	1	SA
....4	R718	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	SA
....4	R210	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	SA
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	SA
....4	R366	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R367	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R368	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R369	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R391	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R392	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R393	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R394	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R9501	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R9502	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	R9503	2011-000585	R-NET;47ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	SA
....4	C101	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C103	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C105	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C235	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C261	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C704	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C705	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C706	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C707	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C723	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C724	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C747	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C748	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C753	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C925	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C926	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	SA
....4	C111	2203-000236	C-CER,CHIP;0.1nF,5%,50V,C0G,1608	1	SA

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C354	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C355	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C356	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C754	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C755	2203-000257	C-CER,CHIP;10nF,10%,50V,X7R,1608	1	S.A
....4	C301	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	S.A
....4	C108	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C109	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	S.A
....4	C373	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	S.A
....4	C374	2203-001086	C-CER,CHIP;0.0050nF,0.25pF,50V,NP0,1608	1	S.A
....4	C230	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C366	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C702	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C718	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C720	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C726	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C745	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	S.A
....4	C236	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C260	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C311	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C312	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C313	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C314	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C315	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C316	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C317	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C318	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C320	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C321	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C322	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C323	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C325	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C326	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C327	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C328	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C329	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C330	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C331	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C333	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C334	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C335	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C336	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C337	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C340	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C341	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C342	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C343	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C344	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C345	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C346	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C347	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C350	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C351	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C352	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C353	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C359	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C360	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C361	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C362	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C363	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C364	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C385	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C752	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A

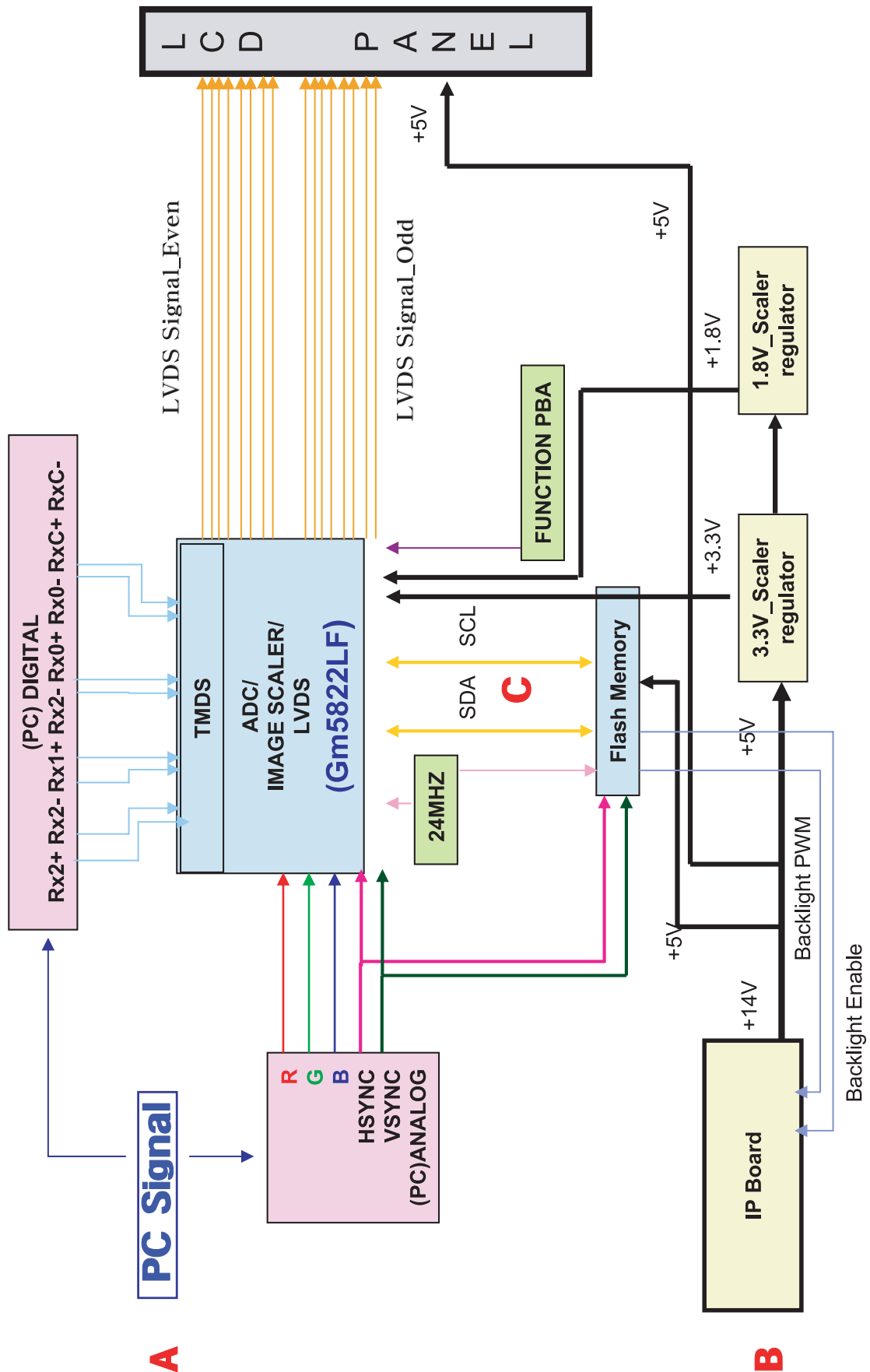
Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	U2447	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	S.A
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C238	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C701	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C709	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	S.A
....4	C938	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A
....4	C722	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C746	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A
....4	C700	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	S.A
....4	C719	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C721	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C725	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C727	2402-001128	C-AL,SMD;100uF,20%,16V,-,TP,6.3X5.7mm	1	S.A
....4	C365	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A
....4	C937	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C943	2409-001051	C-ORGANIC;82UF,20%,6.3V,WT,TP,6.3*5.9MM,	1	S.A
....4	C744	2409-001065	C-ORGANIC;82uF,20%,16V,WT,TP,8X6.9mm,-	1	S.A
....4	X710	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16,	1	S.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A
....4	CN330	3711-005503	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,SMD-	1	S.A
....4	CN330	3711-005509	HEADER-BOARD TO CABLE;BOX,4P,1R,1.25mm,S	1	S.A
....4	L701	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5,GH15/17PS,22	1	S.A
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-,0.	1	S.A
....4	MAIN	BN97-00895K	ASSY MICOM-MAIN;M-ME22W0BAa-1001,(FBC6),	1	S.N.A
....5	IC115	1107-001580	IC-FLASH MEMORY;MX25L4005,4Mbit,512Kx8Bi	1	S.N.A
....4	Q700	0501-000002	TR-SMALL SIGNAL;KSA812,PNP,150MW,SOT-23,	1	S.A
....4	P803T	1404-001223	THERMISTOR-PTC;45mohm,20,6V,-,40A,4A,TP	1	S.A
....4	C919_DE	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	S.A
....4	CN906	3711-002049	CONNECTOR-HEADER;BOX,6P,1R,1.25mm,SMD-A,	1	S.A
....4	R104	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R105	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	R106	2007-001014	R-CHIP;51OHM,5%,1/10W,TP,1608	1	S.A
....4	T0077	BN41-00807A	PCB MAIN;206BW,FR-4,2L,1.0,1.6,138*120*1	1	S.N.A
..2	M0006	BN96-04545A	ASSY SHIELD P-COVER;LS22MEW,SECC,T1.0	1	S.N.A
...3		BN61-02428K	STUD-PEM;PNA,M4,D8,L24,ZPC(SIL),SUM24L	1	S.N.A
...3		BN61-02429D	STUD-PEM;PNB,M2.8,D7,L20,ZPC(SIL),SUM24L	1	S.N.A
...3	M0001	BN63-01774A	SHIELD-INSULATOR;BI17/19BS,PET,T0.35	1	S.N.A
...3	M0107	BN63-02918A	SHIELD-COVER;LS22MEW,SECC,T1.0	1	S.N.A
...3	M0131	BN63-03286A	GASKET;MENDEL,Conductive Fabric,1.0mm,10	2	S.N.A
..2	M0146	BN63-02505A	SHIELD-PCB SMPS;LS215TW,SPTe,T0.3	1	S.N.A
0.1	M0112	BN91-01285A	ASSY SHIELD;LS22MEWSFV/XAA	1	S.N.A
..2		BN63-02920A	SHIELD-LAMP;LS22MEW,SPTe,T0.3	1	S.N.A
0.1	M0113	BN92-02267A	ASSY P/MATERIAL;LS22MEWSFV/XAA	1	S.N.A
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.011	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.002	S.N.A
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.37	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.024	S.N.A
..2	T0524	6902-000758	BAG PE;HDPE/HDPE/NITRON(DOUBLE),T0.015/T	1	S.N.A
0.1	M0003	BN92-02269B	ASSY BOX;LS22MEWSFV/EDC	1	S.N.A
..2	M0014	BN69-01596A	BOX-01,MONITOR;LS22MEW,CB,SY-05,A1,W594,	1.02	S.N.A

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0.1	M0045	BN92-02270D	ASSY ACCESSORY;LS22MEWSFV/EDC,S/M226BW	1	S.N.A
..2	M0114	BN39-00244B	CBF SIGNAL;M015PS,15P/15P,20276-N,1830mm	1	S.A
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	S.A
..2	M0013	BN96-04541A	ASSY STAND P-BASE;LS20MEW,ABS HB,BK26+BK	1	S.A
...3	M0081	6003-001001	SCREW-TAPTITE;FH,+,B,M3,L8,ZPC(BLK),SWRC	4	S.N.A
...3	M0142	BN61-00251A	FOOT-RUBBER;GH17BS,RUBBER,T1.6	4	S.N.A
...3		BN61-01235A	SUPPORT-BRKT BASE;MJ19AS/BS,SECC,T1.6	1	S.N.A
...3	CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+,M4,L11(5)	1	S.A
...3		BN63-02746A	COVER-STAND, TOP;LS19ME,ABS,HB,BK26,HIGH	1	S.N.A
...3	T0004	BN63-02963A	COVER-STAND BASE;LS20MEW,HIPS HB,BK07	1	S.N.A
...3	M0412	BN63-02964A	COVER-SWIVEL BASE;LS20MEW,HIPS HB,BK07	1	S.N.A
...3		BN63-02965A	COVER-SWIVEL RING;LS20MEW,POM HB,BLK	1	S.N.A
...3		BN68-00786F	MANUAL FLYER-02,QSG;Bizet Stand Manual,S	1	S.N.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	CCM1	BN63-02183D	COVER-SHEET;Rhom,PE Vinyl,T0.05,680mm,20	0.25	S.N.A
..2	M0045	BN96-04581B	ASSY ACCESSORY;LS20MEWSFV/EDC	1	S.A
...3	T0268	3903-000042	CBF-POWER CORD;DT,EU,FP3/YES,IEC320 C13/	1	S.A
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	ACCESSORY	BH68-00633A	MANUAL FLYER-WARRANTY CARD,02;comm,Samsu	1	S.N.A
...3	ACCESSORY	BH68-70448A	CARD-01;TFT LCD,SRC,RUSSIA,S/W,120,W210*	1	S.N.A
...3	ACCESSORY	BN68-00907A	MANUAL FLYER-01,CARD;COMM,SAMSUNG,18 LAN	1	S.N.A
...3	M0215	BN96-03250H	ASSY MANUAL P-IB+QSG;206BW,226BW,W/W,L30	1	S.N.A
....4	QSG	BH68-00376L	MANUAL FLYER-04,QSG;LCDQUICK SETUP GUIDE	1	S.N.A
....4	I/B	BN59-00521H	S/W DRIVER-00,IB;206BW,226BW,W/W,SyncMas	1	S.N.A
...3	ACCESSORY	BN63-02368A	CLOTH;LS07BTT,SUEDE,0.6,160,120	1	S.N.A
0.1	M0019	BN92-02280C	ASSY LABEL;LS22MEWSFV/EDC	1	S.N.A
0.1	M0216	BN90-00886A	ASSY STAND;LS19ME	1	S.N.A
..2	M0003	BN96-01953E	ASSY STAND P;LS19MDB,HIPS,BK07	1	S.A
...3		BN63-01842E	COVER-STAND FRONT;LS19MDB,HIPS,HB,BK07	1	S.N.A
...3		BN63-01843E	COVER-STAND REAR;LS19MDB,HIPS,HB,BK07	1	S.N.A
...3	T0054	BN96-04161A	ASSY HINGE P;LS19WBP,SECC T2.0	1	S.N.A
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,ZPC(BLK),S	6	S.N.A

7 Block Diagram

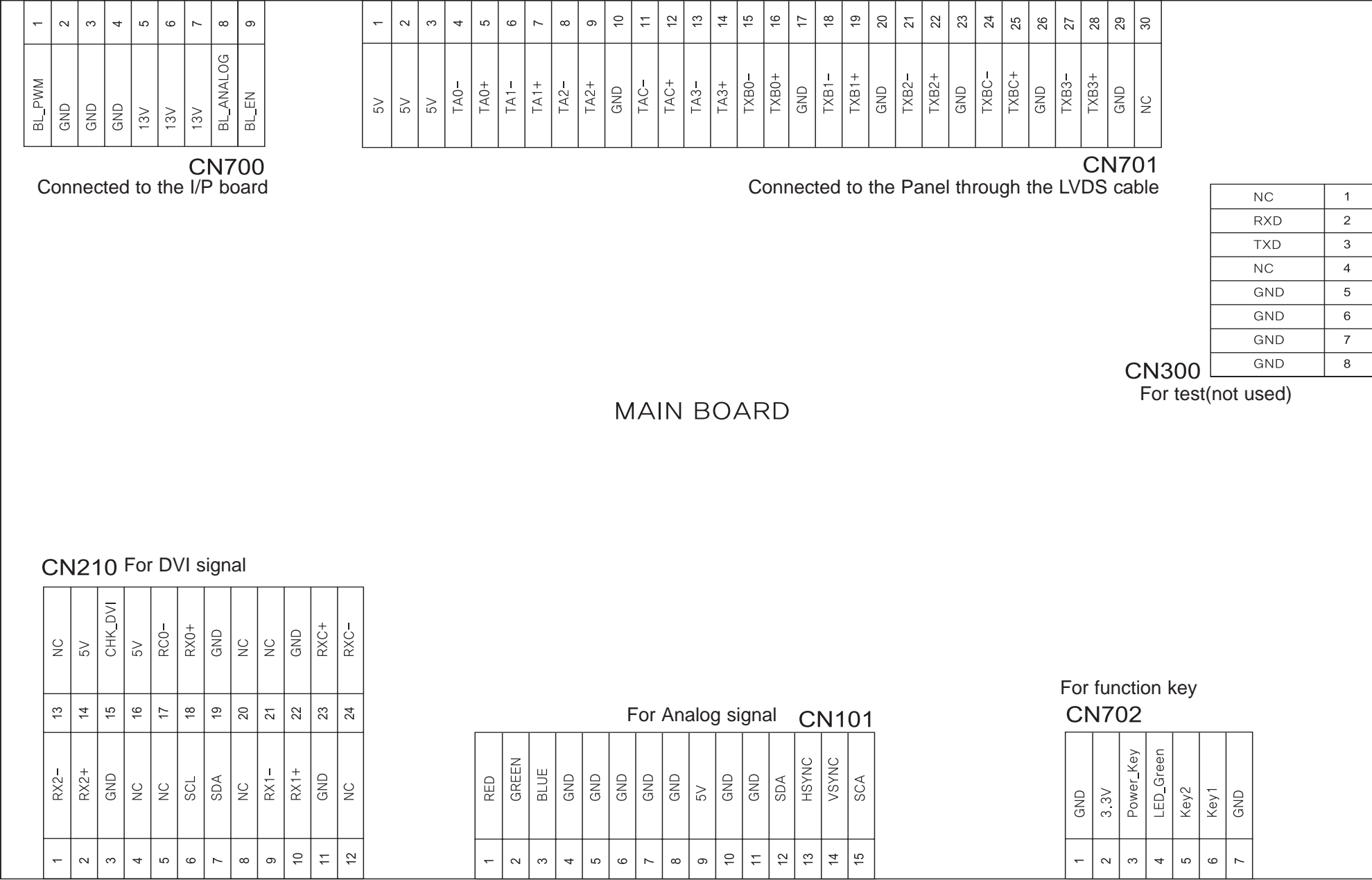
7-1 Block Diagram



7 Block Diagrams

Memo

8 Wiring Diagram



Memo

SAMSUNG

LCD-Monitor

Chassis LME20WS
 LME22WS

Model 206BW
 226BW

SERVICE Manual

LCD Monitor



Fashion Feature

- Magic Bright
- Magic Color
- Integrated UI applied
- Hidden Function Key
- Lustrous Appearance (Design)

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LME20WS/LME22WS Service Manual

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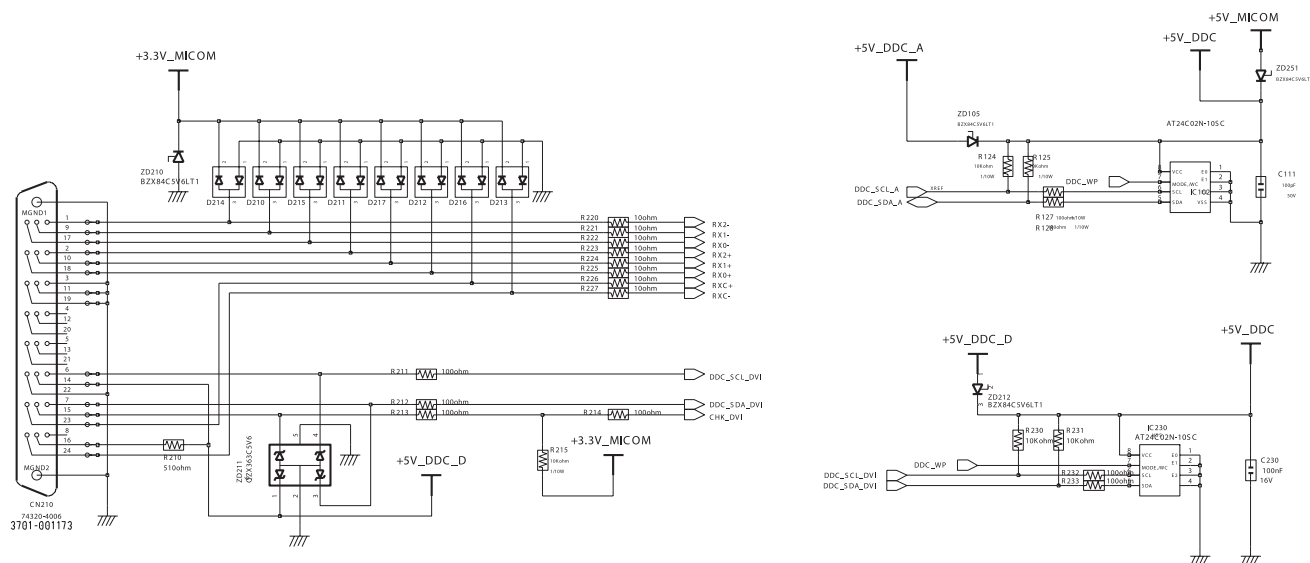
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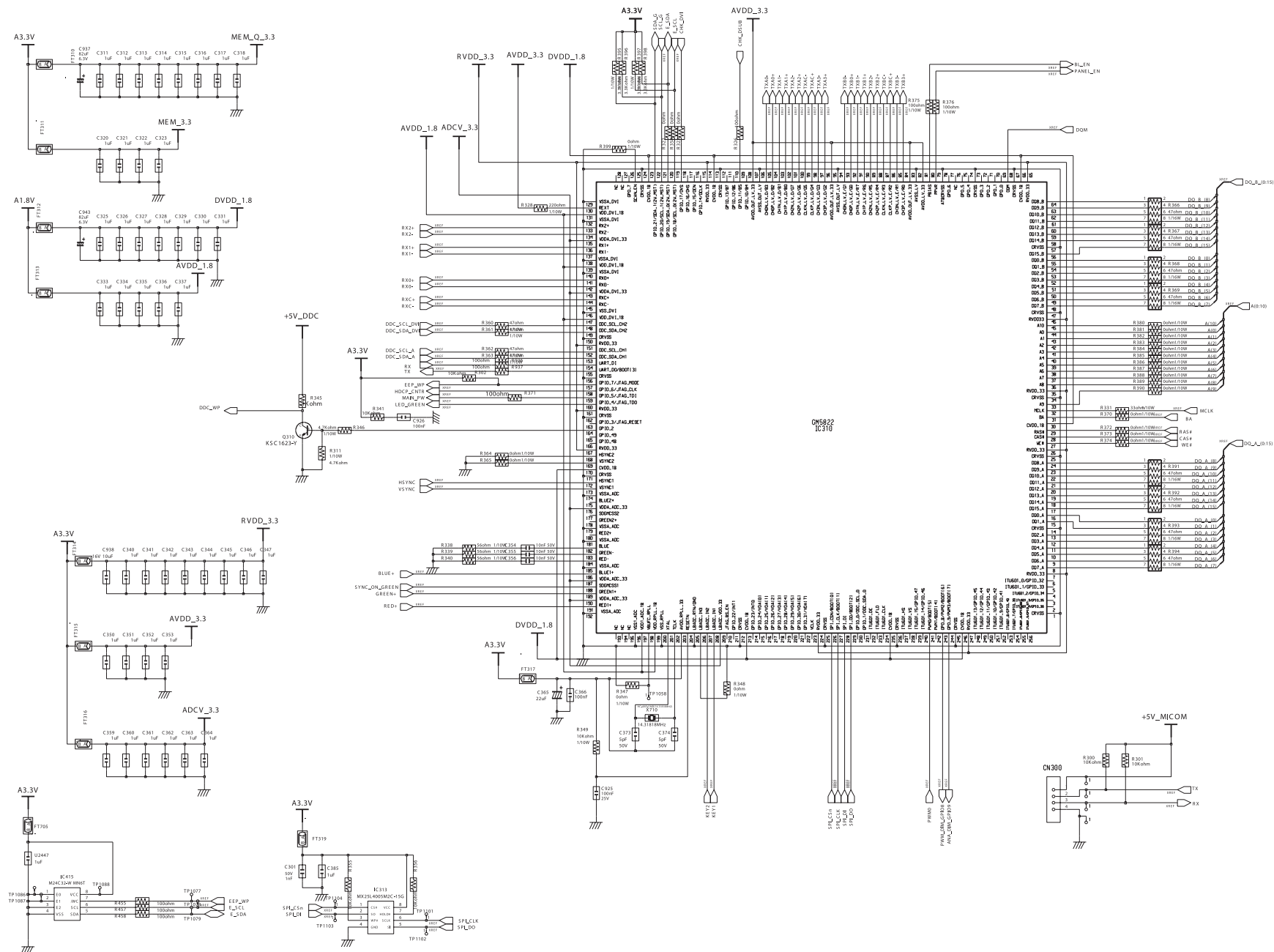
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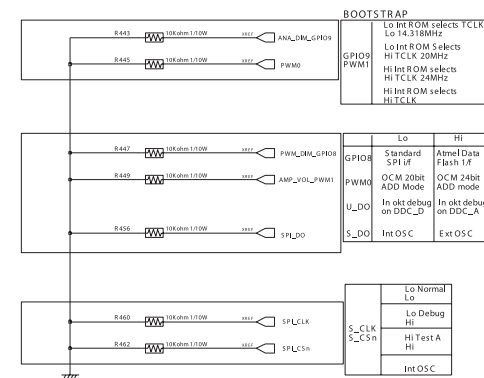
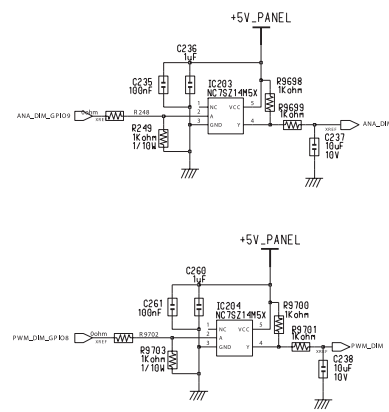
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9-1 Schematic Diagrams



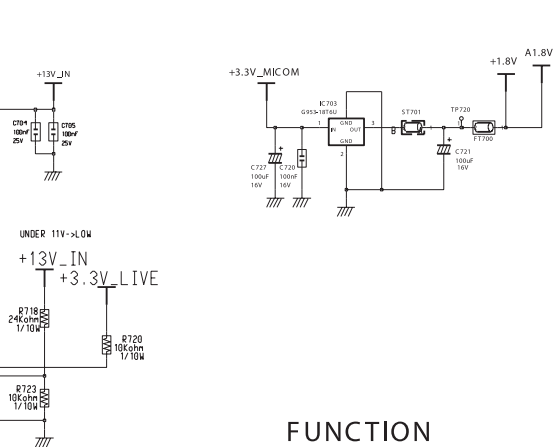
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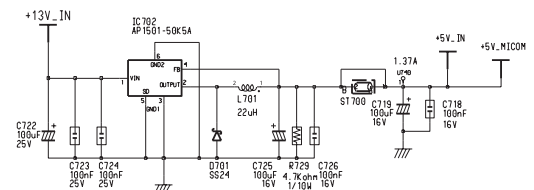
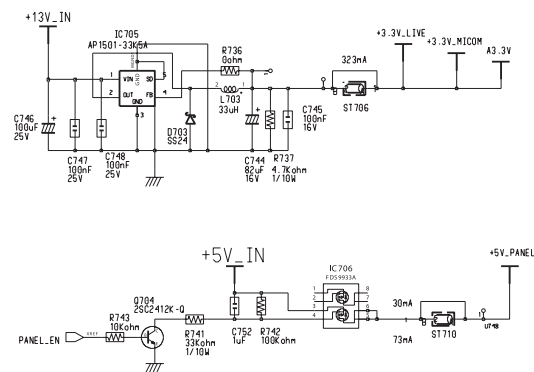
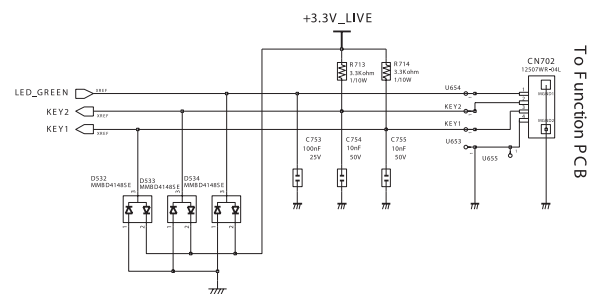
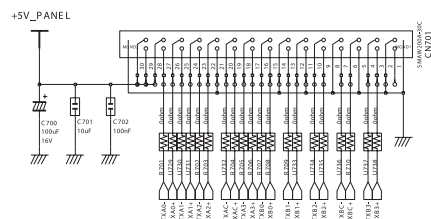


The schematic diagram of the IP-BOARD shows the following components and connections:

- Connections to To IP Board:**
 - U190, U192, U195, U197, U198, U199
 - IP100
- Resistors:**
 - R700 (80hm) connected to PWM_DIM
 - R711 (80hm) connected to ANA_DIM
 - R712 (80hm) connected to ground
 - R716 (10Kohm 1/10W) connected to +3.3V_LIVE
 - R722 (1/10W 10Kohm) connected to BL_EN
- Capacitors:**
 - C709 (10uF 10V) connected to ground
 - C707 (10uF 10V) connected to ground
- Power and Grounding:**
 - +3.3V_LIVE
 - +13V_IN connected to IC701 LM3303
 - IC701 LM3303 (Voltage Regulator)
 - IC700 KSC1623-V (Transistor)
 - Ground symbols throughout the circuit



LVDS



Memo